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(54) Primers for synthesising full-length cDNA and their use

(57) Primers for synthesizing full-length cDNAs and their use are provided.

5602 cDNA encoding a human protein has been isolated and nucleotide sequences of 5'-, and 3' -ends of the cDNA have been determined. Furthermore, primers for

synthesizing the full-length cDNA have been provided to clarify the function of the protein encoded by the cDNA. The full-length cDNA of the present invention containing the translation start site provides information useful for analyzing the functions of the protein.

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DescriptionFIELD OF THE INVENTION

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The present invention relates to a polynucleotide encoding a novel protein, a protein encoded by the polynucleotide, and new uses of these.

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BACKGROUND OF THE INVENTION

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Currently, the sequencing projects, the determination and analysis of the genomic DNA of various living organisms have been in progress all over the world. The whole genomic sequences of more than 10 species of prokaryotes, a lower eukaryote, yeast, and a multicellular eukaryote, *C. elegans* are already determined. As to human genome, which is supposed to be composed of three thousand million base pairs, the world wide cooperative projects have been under way to analyze it, and the whole structure is predicted to be determined by the years 2002-2003. The aim of the determination of genomic sequence is to reveal the functions of all genes and their regulation and to understand living organisms as a network of interactions between genes, proteins, cells or individuals through deducing the information in a genome, which is a blueprint of the highly complicated living organisms. To understand living organisms by utilizing the genomic information from various species is not only important as an academic subject, but also socially significant from the viewpoint of industrial application.

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However, determination of genomic sequences itself cannot identify the functions of all genes. For example, as for yeast, only the function of approximately half of the 6000 genes, which is predicted based on the genomic sequence, was able to be deduced. As for human, the number of the genes is predicted to be approximately one hundred thousand. Therefore, it is desirable to establish "a high throughput analysis system of the gene functions" which allows us to identify rapidly and efficiently the functions of vast amounts of the genes obtained by the genomic sequencing.

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Many genes in the eukaryotic genome are split by introns into multiple exons. Thus, it is difficult to predict correctly the structure of encoded protein solely based on genomic information. In contrast, cDNA, which is produced from mRNA that lacks introns, encodes a protein as a single continuous amino acid sequence and allows us to identify the primary structure of the protein easily. In human cDNA research, to date, more than one million ESTs (Expression Sequence Tags) are publicly available, and the ESTs presumably cover not less than 80% of all human genes.

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The information of ESTs is utilized for analyzing the structure of human genome, or for predicting the exon-regions of genomic sequences or their expression profile. However, many human ESTs have been derived from proximal regions to the 3'-end of cDNA, and information around the 5'-end of mRNA is extremely little. Among these human cDNAs, the number of the corresponding mRNAs whose encoding protein sequences are deduced is approximately 7000, and further, the number of full-length therein is only 5500. Thus, even including cDNA registered as EST, the percentage of human cDNA obtained so far is estimated to be 10-15% of all the genes.

It is possible to identify the transcription start site of mRNA on the genomic sequence based on the 5'-end sequence of a full-length cDNA, and to analyze factors involved in the stability

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of mRNA that is contained in the cDNA, or in its regulation of expression at the translation stage. Also, since a full-length cDNA contains ATG, the translation start site, in the 5'-region, it can be translated into a protein in a correct frame. Therefore, it is possible to produce a large amount of the protein encoded by the cDNA or to analyze biological activity of the expressed protein by utilizing an appropriate expression system. Thus, analysis of a full-length cDNA provides valuable information which complements the information from genome sequencing. Also, full-length cDNA clones that can be expressed are extremely valuable in empirical analysis of gene function and in industrial application.

Therefore, if a novel human full-length cDNA is isolated, it can be used for developing medicines for diseases in which the gene is involved. The protein encoded by the gene can be used as a drug by itself. Thus, it has great significance to obtain a full-length cDNA encoding a novel human protein.

In particular, human secretory proteins or membrane proteins would be useful by itself as a medicine like tissue plasminogen activator (TPA), or as a target of medicines like membrane receptors. In addition, genes for signal transduction-associated proteins (protein kinases, etc.), glycoprotein-associated proteins, transcription-associated proteins, etc. are genes whose relationships to human diseases have been elucidated. Moreover, genes for disease-associated proteins form a gene group rich in genes whose relationships to human diseases have been elucidated.

Therefore, it has great significance to isolate novel full-length cDNA clones of human, only few of which has been isolated. Especially, isolation of a novel cDNA clone encoding a secretory protein or membrane protein is desired since the protein itself would be useful as a medicine, and also the clones potentially include a gene associated with diseases. In addition, genes encoding proteins that are associated with signal transduction, glycoprotein, transcription, or diseases are expected to be useful as target molecules for therapy, or as medicines themselves. These genes form a gene group predicted to be strongly associated with diseases. Thus, identification of the full-length cDNA clones encoding those proteins has great significance.

SUMMARY OF THE INVENTION

An objective of the present invention is to provide a polynucleotide encoding a novel protein, a protein encoded by said polynucleotide, and novel usages of these.

The inventors have developed a method for efficiently cloning a human full-length cDNA that is predicted by the ATGpr etc. to be a full-length cDNA clone, from a full-length-enriched cDNA library that is synthesized by the oligo-capping method. Then, the inventors determined the nucleotide sequence of the obtained cDNA clones from both 5'- and 3'- ends.

Furthermore, the inventors analyzed the obtained clones by the BLAST search of the databases, SwissProt (http://www.ebi.ac.uk/ebi_docs/SwissProt_db/swisshome.html), GenBank (<http://www.ncbi.nlm.nih.gov/web/GenBank>), and UniGene (Human) (<http://www.ncbi.nlm.nih.gov/UniGene>).

The full-length cDNA clones of the present invention have high fullness ratio since these were obtained by the combination of (1) construction of a full-length-enriched cDNA library that is synthesized by the oligo-capping method, and (2) a system in which the full-length ratio is evaluated from the nucleotide sequence of the 5'-end (selection based on the ATGpr, previously

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removed complete sequences to ESTs). However, the primer of the present invention enables to obtain full-length cDNA easily without any specialized methods as in the described method.

Homology analysis in which the analysis is carried out against a not-full-length cDNA fragment to postulate the function of a protein encoded by said fragment, is being commonly performed.

However, since such analysis is based on the information of the fragment, it is not clear as to whether this fragment corresponds to a part that is functionally important in the protein. In other words, the reliability of the homology analysis based on the information of a fragment is doubtful, as information related to the structure of the whole protein is not available. However, the homology analysis of the present invention is conducted based on the information of a full-length cDNA comprising the whole coding region of the cDNA, and therefore, the homology of various portions of the protein can be analyzed. Hence, the reliability of the homology analysis has been dramatically improved in the present invention.

The inventors completed the invention by finding that it is possible to synthesize a novel full-length cDNA by using the combination of a primer that is designed based on the nucleotide sequence of the 5'-ends of the selected full-length cDNA clones and any of an oligo-dT primer or a 3'-primer that is designed based on the nucleotide sequence of the 3'-ends of the selected clones.

Thus, the present invention relates to primers described below, a method for synthesizing a polynucleotide using the primers, and polynucleotides obtained by the method.

First, the present invention relates to

(1) use of an oligonucleotide as a primer for synthesizing the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, or the complementary strand thereof, wherein said oligonucleotide is complementary to said polynucleotide or the complementary strand thereof and comprises at least 15 nucleotides;

(2) a primer set for synthesizing polynucleotides, the primer set comprising an oligo-dT primer and an oligonucleotide complementary to the complementary strand of the polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs: 1-5547 and SEQ ID NOs: 16111-16164, wherein said oligonucleotide comprises at least 15 nucleotides; and

(3) a primer set for synthesizing polynucleotides, the primer set comprising a combination of an oligonucleotide comprising a nucleotide sequence complementary to the complementary strand of the polynucleotide comprising a 5'-end nucleotide sequence and an oligonucleotide comprising a nucleotide sequence complementary to the polynucleotide comprising a 3'-end nucleotide sequence, wherein said oligonucleotides comprise at least 15 nucleotides and wherein said combination of 5'-end nucleotide sequence / 3'-end nucleotide sequence is selected from the combinations of 5'-end nucleotide sequence / 3'-end nucleotide sequence set forth in the SEQ ID NOs in Tables 1 and 2.

Tables 1 and 2 shows names of clones obtained in the examples described later, comprising the polynucleotide of the present invention (Table 1; 5547 clones, Table 2; 54 clones), names of

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nucleotide sequences at the 5'-end and 3'-end of the full-length cDNA, and their corresponding SEQ ID NOs. A blank indicates that the 3'-end sequence corresponding to the 5'-end sequence has not been determined for the same clone.

The SEQ ID NO of a 5'-end sequence is shown on the right side of the name of the 5'-end sequence, and the SEQ ID NO of a 3'-end sequence is shown on the right side of the name of the 3'-end sequence.

Table 1

name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
HEMBA1000005	F-HEMBA1000005	1	R-HEMBA1000005	5548
HEMBA1000012	F-HEMBA1000012	2		
HEMBA1000020	F-HEMBA1000020	3		
HEMBA1000030	F-HEMBA1000030	4	R-HEMBA1000030	5549
HEMBA1000042	F-HEMBA1000042	5	R-HEMBA1000042	5550
HEMBA1000046	F-HEMBA1000046	6	R-HEMBA1000046	5551
HEMBA1000050	F-HEMBA1000050	7	R-HEMBA1000050	5552
HEMBA1000076	F-HEMBA1000076	8	R-HEMBA1000076	5553
HEMBA1000111	F-HEMBA1000111	9	R-HEMBA1000111	5554
HEMBA1000129	F-HEMBA1000129	10	R-HEMBA1000129	5555
HEMBA1000141	F-HEMBA1000141	11	R-HEMBA1000141	5556
HEMBA1000150	F-HEMBA1000150	12	R-HEMBA1000150	5557
HEMBA1000156	F-HEMBA1000156	13	R-nnnnnnnnnnnnn	5558
HEMBA1000158	F-HEMBA1000158	14	R-HEMBA1000158	5559
HEMBA1000168	F-HEMBA1000168	15	R-nnnnnnnnnnnnn	5560

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	HEMBA1000180	F-HEMBA1000180	16	R-HEMBA1000180	5561
	HEMBA1000185	F-HEMBA1000185	17	R-HEMBA1000185	5562
	HEMBA1000193	F-HEMBA1000193	18	R-HEMBA1000193	5563
5	HEMBA1000201	F-HEMBA1000201	19	R-HEMBA1000201	5564
	HEMBA1000213	F-HEMBA1000213	20	R-HEMBA1000213	5565
	HEMBA1000216	F-HEMBA1000216	21	R-HEMBA1000216	5566
	HEMBA1000227	F-HEMBA1000227	22	R-nnnnnnnnnnnnn	5567
10	HEMBA1000231	F-HEMBA1000231	23	R-HEMBA1000231	5568
	HEMBA1000243	F-HEMBA1000243	24	R-HEMBA1000243	5569
	HEMBA1000244	F-HEMBA1000244	25	R-HEMBA1000244	5570
	HEMBA1000251	F-HEMBA1000251	26	R-HEMBA1000251	5571
15	HEMBA1000264	F-HEMBA1000264	27	R-HEMBA1000264	5572
	HEMBA1000280	F-HEMBA1000280	28	R-nnnnnnnnnnnnn	5573
	HEMBA1000282	F-HEMBA1000282	29	R-HEMBA1000282	5574
	HEMBA1000288	F-HEMBA1000288	30	R-HEMBA1000288	5575
20	HEMBA1000290	F-HEMBA1000290	31	R-HEMBA1000290	5576
	HEMBA1000302	F-HEMBA1000302	32	R-HEMBA1000302	5577
	HEMBA1000303	F-HEMBA1000303	33	R-nnnnnnnnnnnnn	5578
	HEMBA1000304	F-HEMBA1000304	34	R-nnnnnnnnnnnnn	5579
25	HEMBA1000307	F-HEMBA1000307	35	R-HEMBA1000307	5580
	HEMBA1000327	F-HEMBA1000327	36		
	HEMBA1000333	F-HEMBA1000333	37	R-nnnnnnnnnnnnn	5581
	HEMBA1000338	F-HEMBA1000338	38	R-HEMBA1000338	5582
30	HEMBA1000351	F-HEMBA1000351	39	R-HEMBA1000351	5583
	HEMBA1000355	F-HEMBA1000355	40	R-HEMBA1000355	5584
	HEMBA1000356	F-HEMBA1000356	41		
	HEMBA1000357	F-HEMBA1000357	42	R-HEMBA1000357	5585
35	HEMBA1000366	F-HEMBA1000366	43	R-HEMBA1000366	5586
	HEMBA1000369	F-HEMBA1000369	44	R-HEMBA1000369	5587
	HEMBA1000376	F-HEMBA1000376	45	R-HEMBA1000376	5588
	HEMBA1000387	F-HEMBA1000387	46	R-HEMBA1000387	5589
40	HEMBA1000390	F-HEMBA1000390	47	R-HEMBA1000390	5590
	HEMBA1000392	F-HEMBA1000392	48	R-HEMBA1000392	5591
	HEMBA1000396	F-HEMBA1000396	49	R-HEMBA1000396	5592
	HEMBA1000411	F-HEMBA1000411	50	R-HEMBA1000411	5593
45	HEMBA1000418	F-HEMBA1000418	51	R-HEMBA1000418	5594
	HEMBA1000422	F-HEMBA1000422	52	R-HEMBA1000422	5595
	HEMBA1000428	F-HEMBA1000428	53	R-HEMBA1000428	5596
	HEMBA1000434	F-HEMBA1000434	54	R-HEMBA1000434	5597
50	HEMBA1000442	F-HEMBA1000442	55	R-HEMBA1000442	5598
	HEMBA1000456	F-HEMBA1000456	56	R-HEMBA1000456	5599
	HEMBA1000459	F-HEMBA1000459	57	R-HEMBA1000459	5600
	HEMBA1000460	F-HEMBA1000460	58	R-HEMBA1000460	5601
55	HEMBA1000464	F-HEMBA1000464	59	R-HEMBA1000464	5602
	HEMBA1000469	F-HEMBA1000469	60	R-HEMBA1000469	5603
	HEMBA1000488	F-HEMBA1000488	61	R-HEMBA1000488	5604

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	HEMBA1000490	F-HEMBA1000490	62	R-HEMBA1000490	5605
	HEMBA1000491	F-HEMBA1000491	63	R-HEMBA1000491	5606
	HEMBA1000501	F-HEMBA1000501	64		
5	HEMBA1000504	F-HEMBA1000504	65	R-HEMBA1000504	5607
	HEMBA1000505	F-HEMBA1000505	66	R-HEMBA1000505	5608
	HEMBA1000508	F-HEMBA1000508	67	R-HEMBA1000508	5609
	HEMBA1000518	F-HEMBA1000518	68	R-HEMBA1000518	5610
10	HEMBA1000519	F-HEMBA1000519	69	R-HEMBA1000519	5611
	HEMBA1000520	F-HEMBA1000520	70	R-HEMBA1000520	5612
	HEMBA1000523	F-HEMBA1000523	71	R-HEMBA1000523	5613
	HEMBA1000531	F-HEMBA1000531	72	R-HEMBA1000531	5614
15	HEMBA1000534	F-HEMBA1000534	73		
	HEMBA1000540	F-HEMBA1000540	74	R-HEMBA1000540	5615
	HEMBA1000542	F-HEMBA1000542	75		
	HEMBA1000545	F-HEMBA1000545	76	R-HEMBA1000545	5616
20	HEMBA1000555	F-HEMBA1000555	77	R-nnnnnnnnnnnnn	5617
	HEMBA1000557	F-HEMBA1000557	78	R-HEMBA1000557	5618
	HEMBA1000561	F-HEMBA1000561	79	R-HEMBA1000561	5619
	HEMBA1000563	F-HEMBA1000563	80	R-HEMBA1000563	5620
25	HEMBA1000568	F-HEMBA1000568	81	R-HEMBA1000568	5621
	HEMBA1000569	F-HEMBA1000569	82	R-nnnnnnnnnnnnn	5622
	HEMBA1000575	F-HEMBA1000575	83	R-HEMBA1000575	5623
	HEMBA1000588	F-HEMBA1000588	84	R-HEMBA1000588	5624
30	HEMBA1000591	F-HEMBA1000591	85	R-HEMBA1000591	5625
	HEMBA1000592	F-HEMBA1000592	86	R-HEMBA1000592	5626
	HEMBA1000594	F-HEMBA1000594	87	R-HEMBA1000594	5627
	HEMBA1000604	F-HEMBA1000604	88	R-HEMBA1000604	5628
35	HEMBA1000608	F-HEMBA1000608	89	R-HEMBA1000608	5629
	HEMBA1000622	F-HEMBA1000622	90	R-HEMBA1000622	5630
	HEMBA1000636	F-HEMBA1000636	91	R-HEMBA1000636	5631
	HEMBA1000637	F-HEMBA1000637	92	R-HEMBA1000637	5632
40	HEMBA1000655	F-HEMBA1000655	93	R-HEMBA1000655	5633
	HEMBA1000657	F-HEMBA1000657	94	R-HEMBA1000657	5634
	HEMBA1000662	F-HEMBA1000662	95	R-HEMBA1000662	5635
	HEMBA1000673	F-HEMBA1000673	96	R-HEMBA1000673	5636
45	HEMBA1000682	F-HEMBA1000682	97	R-HEMBA1000682	5637
	HEMBA1000686	F-HEMBA1000686	98	R-HEMBA1000686	5638
	HEMBA1000702	F-HEMBA1000702	99	R-HEMBA1000702	5639
	HEMBA1000705	F-HEMBA1000705	100	R-HEMBA1000705	5640
50	HEMBA1000719	F-HEMBA1000719	101	R-HEMBA1000719	5641
	HEMBA1000722	F-HEMBA1000722	102	R-HEMBA1000722	5642
	HEMBA1000726	F-HEMBA1000726	103	R-HEMBA1000726	5643
	HEMBA1000727	F-HEMBA1000727	104	R-HEMBA1000727	5644
	HEMBA1000747	F-HEMBA1000747	105	R-HEMBA1000747	5645
55	HEMBA1000749	F-HEMBA1000749	106	R-HEMBA1000749	5646
	HEMBA1000752	F-HEMBA1000752	107	R-HEMBA1000752	5647

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	HEMBA1000769	F-HEMBA1000769	108	R-HEMBA1000769	5648
	HEMBA1000773	F-HEMBA1000773	109	R-HEMBA1000773	5649
	HEMBA1000774	F-HEMBA1000774	110	R-HEMBA1000774	5650
5	HEMBA1000791	F-HEMBA1000791	111	R-HEMBA1000791	5651
	HEMBA1000817	F-HEMBA1000817	112	R-HEMBA1000817	5652
	HEMBA1000822	F-HEMBA1000822	113	R-HEMBA1000822	5653
	HEMBA1000827	F-HEMBA1000827	114	R-HEMBA1000827	5654
10	HEMBA1000843	F-HEMBA1000843	115	R-HEMBA1000843	5655
	HEMBA1000851	F-HEMBA1000851	116	R-HEMBA1000851	5656
	HEMBA1000852	F-HEMBA1000852	117	R-HEMBA1000852	5657
	HEMBA1000867	F-HEMBA1000867	118	R-HEMBA1000867	5658
15	HEMBA1000869	F-HEMBA1000869	119	R-HEMBA1000869	5659
	HEMBA1000870	F-HEMBA1000870	120	R-HEMBA1000870	5660
	HEMBA1000872	F-HEMBA1000872	121	R-HEMBA1000872	5661
	HEMBA1000876	F-HEMBA1000876	122	R-HEMBA1000876	5662
20	HEMBA1000908	F-HEMBA1000908	123	R-HEMBA1000908	5663
	HEMBA1000910	F-HEMBA1000910	124	R-HEMBA1000910	5664
	HEMBA1000918	F-HEMBA1000918	125	R-HEMBA1000918	5665
	HEMBA1000919	F-HEMBA1000919	126	R-HEMBA1000919	5666
25	HEMBA1000934	F-HEMBA1000934	127	R-HEMBA1000934	5667
	HEMBA1000942	F-HEMBA1000942	128	R-HEMBA1000942	5668
	HEMBA1000943	F-HEMBA1000943	129	R-HEMBA1000943	5669
	HEMBA1000946	F-HEMBA1000946	130	R-HEMBA1000946	5670
30	HEMBA1000960	F-HEMBA1000960	131	R-HEMBA1000960	5671
	HEMBA1000968	F-HEMBA1000968	132	R-HEMBA1000968	5672
	HEMBA1000971	F-HEMBA1000971	133	R-HEMBA1000971	5673
	HEMBA1000972	F-HEMBA1000972	134	R-HEMBA1000972	5674
35	HEMBA1000974	F-HEMBA1000974	135	R-HEMBA1000974	5675
	HEMBA1000975	F-HEMBA1000975	136	R-HEMBA1000975	5676
	HEMBA1000985	F-HEMBA1000985	137	R-HEMBA1000985	5677
	HEMBA1000986	F-HEMBA1000986	138	R-HEMBA1000986	5678
40	HEMBA1000991	F-HEMBA1000991	139	R-HEMBA1000991	5679
	HEMBA1001007	F-HEMBA1001007	140	R-HEMBA1001007	5680
	HEMBA1001008	F-HEMBA1001008	141	R-HEMBA1001008	5681
	HEMBA1001009	F-HEMBA1001009	142	R-HEMBA1001009	5682
45	HEMBA1001017	F-HEMBA1001017	143	R-HEMBA1001017	5683
	HEMBA1001019	F-HEMBA1001019	144	R-HEMBA1001019	5684
	HEMBA1001020	F-HEMBA1001020	145	R-HEMBA1001020	5685
	HEMBA1001022	F-HEMBA1001022	146	R-HEMBA1001022	5686
50	HEMBA1001024	F-HEMBA1001024	147	R-HEMBA1001024	5687
	HEMBA1001026	F-HEMBA1001026	148	R-HEMBA1001026	5688
	HEMBA1001043	F-HEMBA1001043	149	R-nnnnnnnnnnnnn	5689
	HEMBA1001051	F-HEMBA1001051	150	R-HEMBA1001051	5690
55	HEMBA1001052	F-HEMBA1001052	151	R-HEMBA1001052	5691
	HEMBA1001059	F-HEMBA1001059	152		
	HEMBA1001060	F-HEMBA1001060	153	R-HEMBA1001060	5692

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	HEMBA1001071	F-HEMBA1001071	154	R-HEMBA1001071	5693
	HEMBA1001077	F-HEMBA1001077	155	R-HEMBA1001077	5694
	HEMBA1001080	F-HEMBA1001080	156	R-HEMBA1001080	5695
5	HEMBA1001085	F-HEMBA1001085	157	R-HEMBA1001085	5696
	HEMBA1001088	F-HEMBA1001088	158	R-HEMBA1001088	5697
	HEMBA1001094	F-HEMBA1001094	159	R-HEMBA1001094	5698
	HEMBA1001099	F-HEMBA1001099	160	R-HEMBA1001099	5699
10	HEMBA1001109	F-HEMBA1001109	161	R-HEMBA1001109	5700
	HEMBA1001121	F-HEMBA1001121	162	R-HEMBA1001121	5701
	HEMBA1001122	F-HEMBA1001122	163	R-HEMBA1001122	5702
	HEMBA1001123	F-HEMBA1001123	164	R-HEMBA1001123	5703
15	HEMBA1001133	F-HEMBA1001133	165	R-HEMBA1001133	5704
	HEMBA1001137	F-HEMBA1001137	166	R-HEMBA1001137	5705
	HEMBA1001140	F-HEMBA1001140	167	R-HEMBA1001140	5706
	HEMBA1001172	F-HEMBA1001172	168	R-HEMBA1001172	5707
20	HEMBA1001174	F-HEMBA1001174	169	R-HEMBA1001174	5708
	HEMBA1001197	F-HEMBA1001197	170	R-HEMBA1001197	5709
	HEMBA1001208	F-HEMBA1001208	171	R-HEMBA1001208	5710
	HEMBA1001213	F-HEMBA1001213	172		
25	HEMBA1001226	F-HEMBA1001226	173	R-HEMBA1001226	5711
	HEMBA1001235	F-HEMBA1001235	174	R-HEMBA1001235	5712
	HEMBA1001247	F-HEMBA1001247	175	R-HEMBA1001247	5713
	HEMBA1001257	F-HEMBA1001257	176	R-HEMBA1001257	5714
30	HEMBA1001265	F-HEMBA1001265	177	R-HEMBA1001265	5715
	HEMBA1001281	F-HEMBA1001281	178	R-aaaaaaaaaaaa	5716
	HEMBA1001286	F-HEMBA1001286	179	R-HEMBA1001286	5717
	HEMBA1001289	F-HEMBA1001289	180	R-HEMBA1001289	5718
35	HEMBA1001294	F-HEMBA1001294	181	R-HEMBA1001294	5719
	HEMBA1001299	F-HEMBA1001299	182	R-HEMBA1001299	5720
	HEMBA1001302	F-HEMBA1001302	183	R-HEMBA1001302	5721
	HEMBA1001303	F-HEMBA1001303	184	R-HEMBA1001303	5722
40	HEMBA1001310	F-HEMBA1001310	185	R-HEMBA1001310	5723
	HEMBA1001319	F-HEMBA1001319	186	R-HEMBA1001319	5724
	HEMBA1001323	F-HEMBA1001323	187	R-HEMBA1001323	5725
	HEMBA1001326	F-HEMBA1001326	188	R-HEMBA1001326	5726
45	HEMBA1001327	F-HEMBA1001327	189	R-HEMBA1001327	5727
	HEMBA1001330	F-HEMBA1001330	190	R-HEMBA1001330	5728
	HEMBA1001351	F-HEMBA1001351	191	R-HEMBA1001351	5729
	HEMBA1001361	F-HEMBA1001361	192	R-HEMBA1001361	5730
	HEMBA1001375	F-HEMBA1001375	193	R-HEMBA1001375	5731
50	HEMBA1001377	F-HEMBA1001377	194	R-HEMBA1001377	5732
	HEMBA1001383	F-HEMBA1001383	195	R-HEMBA1001383	5733
	HEMBA1001387	F-HEMBA1001387	196	R-HEMBA1001387	5734
	HEMBA1001388	F-HEMBA1001388	197	R-HEMBA1001388	5735
55	HEMBA1001391	F-HEMBA1001391	198	R-HEMBA1001391	5736
	HEMBA1001398	F-HEMBA1001398	199	R-HEMBA1001398	5737

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	HEMBA1001405	F-HEMBA1001405	200	R-HEMBA1001405	5738
	HEMBA1001407	F-HEMBA1001407	201	R-HEMBA1001407	5739
	HEMBA1001411	F-HEMBA1001411	202	R-HEMBA1001411	5740
5	HEMBA1001413	F-HEMBA1001413	203	R-HEMBA1001413	5741
	HEMBA1001415	F-HEMBA1001415	204	R-HEMBA1001415	5742
	HEMBA1001432	F-HEMBA1001432	205	R-HEMBA1001432	5743
	HEMBA1001433	F-HEMBA1001433	206	R-HEMBA1001433	5744
10	HEMBA1001435	F-HEMBA1001435	207	R-HEMBA1001435	5745
	HEMBA1001442	F-HEMBA1001442	208	R-HEMBA1001442	5746
	HEMBA1001446	F-HEMBA1001446	209	R-HEMBA1001446	5747
	HEMBA1001450	F-HEMBA1001450	210	R-HEMBA1001450	5748
15	HEMBA1001454	F-HEMBA1001454	211	R-HEMBA1001454	5749
	HEMBA1001455	F-HEMBA1001455	212	R-HEMBA1001455	5750
	HEMBA1001463	F-HEMBA1001463	213	R-HEMBA1001463	5751
	HEMBA1001476	F-HEMBA1001476	214	R-HEMBA1001476	5752
20	HEMBA1001478	F-HEMBA1001478	215	R-HEMBA1001478	5753
	HEMBA1001497	F-HEMBA1001497	216	R-HEMBA1001497	5754
	HEMBA1001510	F-HEMBA1001510	217	R-HEMBA1001510	5755
	HEMBA1001515	F-HEMBA1001515	218	R-HEMBA1001515	5756
25	HEMBA1001517	F-HEMBA1001517	219	R-HEMBA1001517	5757
	HEMBA1001522	F-HEMBA1001522	220	R-HEMBA1001522	5758
	HEMBA1001526	F-HEMBA1001526	221	R-HEMBA1001526	5759
	HEMBA1001533	F-HEMBA1001533	222	R-HEMBA1001533	5760
30	HEMBA1001557	F-HEMBA1001557	223	R-HEMBA1001557	5761
	HEMBA1001566	F-HEMBA1001566	224	R-HEMBA1001566	5762
	HEMBA1001569	F-HEMBA1001569	225	R-HEMBA1001569	5763
	HEMBA1001570	F-HEMBA1001570	226	R-HEMBA1001570	5764
35	HEMBA1001579	F-HEMBA1001579	227	R-HEMBA1001579	5765
	HEMBA1001581	F-HEMBA1001581	228	R-HEMBA1001581	5766
	HEMBA1001585	F-HEMBA1001585	229	R-HEMBA1001585	5767
	HEMBA1001589	F-HEMBA1001589	230	R-HEMBA1001589	5768
40	HEMBA1001595	F-HEMBA1001595	231	R-HEMBA1001595	5769
	HEMBA1001608	F-HEMBA1001608	232	R-HEMBA1001608	5770
	HEMBA1001620	F-HEMBA1001620	233	R-HEMBA1001620	5771
	HEMBA1001635	F-HEMBA1001635	234	R-nnnnnnnnnnnn	5772
	HEMBA1001636	F-HEMBA1001636	235	R-HEMBA1001636	5773
45	HEMBA1001640	F-HEMBA1001640	236	R-HEMBA1001640	5774
	HEMBA1001647	F-HEMBA1001647	237		
	HEMBA1001651	F-HEMBA1001651	238	R-nnnnnnnnnnnn	5775
	HEMBA1001655	F-HEMBA1001655	239	R-HEMBA1001655	5776
50	HEMBA1001658	F-HEMBA1001658	240	R-HEMBA1001658	5777
	HEMBA1001661	F-HEMBA1001661	241	R-HEMBA1001661	5778
	HEMBA1001672	F-HEMBA1001672	242	R-HEMBA1001672	5779
	HEMBA1001675	F-HEMBA1001675	243	R-HEMBA1001675	5780
55	HEMBA1001678	F-HEMBA1001678	244	R-HEMBA1001678	5781
	HEMBA1001681	F-HEMBA1001681	245	R-HEMBA1001681	5782

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	HEMBA1001702	F-HEMBA1001702	246	R-HEMBA1001702	5783
	HEMBA1001709	F-HEMBA1001709	247	R-HEMBA1001709	5784
	HEMBA1001711	F-HEMBA1001711	248	R-HEMBA1001711	5785
5	HEMBA1001712	F-HEMBA1001712	249	R-HEMBA1001712	5786
	HEMBA1001714	F-HEMBA1001714	250	R-HEMBA1001714	5787
	HEMBA1001718	F-HEMBA1001718	251	R-HEMBA1001718	5788
	HEMBA1001723	F-HEMBA1001723	252	R-HEMBA1001723	5789
10	HEMBA1001731	F-HEMBA1001731	253	R-HEMBA1001731	5790
	HEMBA1001734	F-HEMBA1001734	254	R-HEMBA1001734	5791
	HEMBA1001744	F-HEMBA1001744	255	R-HEMBA1001744	5792
	HEMBA1001745	F-HEMBA1001745	256	R-HEMBA1001745	5793
15	HEMBA1001746	F-HEMBA1001746	257	R-HEMBA1001746	5794
	HEMBA1001761	F-HEMBA1001761	258	R-HEMBA1001761	5795
	HEMBA1001781	F-HEMBA1001781	259	R-HEMBA1001781	5796
	HEMBA1001784	F-HEMBA1001784	260	R-HEMBA1001784	5797
20	HEMBA1001791	F-HEMBA1001791	261	R-HEMBA1001791	5798
	HEMBA1001800	F-HEMBA1001800	262	R-HEMBA1001800	5799
	HEMBA1001803	F-HEMBA1001803	263	R-HEMBA1001803	5800
	HEMBA1001804	F-HEMBA1001804	264	R-nnnnnnnnnnnnn	5801
25	HEMBA1001808	F-HEMBA1001808	265	R-HEMBA1001808	5802
	HEMBA1001809	F-HEMBA1001809	266	R-HEMBA1001809	5803
	HEMBA1001815	F-HEMBA1001815	267	R-HEMBA1001815	5804
	HEMBA1001819	F-HEMBA1001819	268	R-HEMBA1001819	5805
30	HEMBA1001820	F-HEMBA1001820	269	R-HEMBA1001820	5806
	HEMBA1001822	F-HEMBA1001822	270	R-nnnnnnnnnnnnn	5807
	HEMBA1001824	F-HEMBA1001824	271	R-HEMBA1001824	5808
	HEMBA1001835	F-HEMBA1001835	272	R-HEMBA1001835	5809
35	HEMBA1001844	F-HEMBA1001844	273	R-HEMBA1001844	5810
	HEMBA1001847	F-HEMBA1001847	274	R-HEMBA1001847	5811
	HEMBA1001861	F-HEMBA1001861	275	R-HEMBA1001861	5812
	HEMBA1001864	F-HEMBA1001864	276	R-HEMBA1001864	5813
40	HEMBA1001866	F-HEMBA1001866	277	R-HEMBA1001866	5814
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	HEMBA1001896	F-HEMBA1001896	280	R-HEMBA1001896	5817
45	HEMBA1001910	F-HEMBA1001910	281	R-HEMBA1001910	5818
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	HEMBA1001913	F-HEMBA1001913	283	R-HEMBA1001913	5820
	HEMBA1001915	F-HEMBA1001915	284	R-HEMBA1001915	5821
	HEMBA1001918	F-HEMBA1001918	285	R-HEMBA1001918	5822
50	HEMBA1001921	F-HEMBA1001921	286	R-HEMBA1001921	5823
	HEMBA1001939	F-HEMBA1001939	287	R-HEMBA1001939	5824
	HEMBA1001940	F-HEMBA1001940	288	R-HEMBA1001940	5825
	HEMBA1001942	F-HEMBA1001942	289	R-HEMBA1001942	5826
55	HEMBA1001945	F-HEMBA1001945	290	R-HEMBA1001945	5827
	HEMBA1001950	F-HEMBA1001950	291	R-HEMBA1001950	5828

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	HEMBA1001960	F-HEMBA1001960	292	R-HEMBA1001960	5829
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	HEMBA1001964	F-HEMBA1001964	294	R-HEMBA1001964	5831
5	HEMBA1001967	F-HEMBA1001967	295	R-HEMBA1001967	5832
	HEMBA1001979	F-HEMBA1001979	296	R-HEMBA1001979	5833
	HEMBA1001987	F-HEMBA1001987	297	R-HEMBA1001987	5834
	HEMBA1001991	F-HEMBA1001991	298	R-HEMBA1001991	5835
10	HEMBA1002003	F-HEMBA1002003	299	R-HEMBA1002003	5836
	HEMBA1002008	F-HEMBA1002008	300	R-HEMBA1002008	5837
	HEMBA1002018	F-HEMBA1002018	301	R-HEMBA1002018	5838
	HEMBA1002022	F-HEMBA1002022	302	R-HEMBA1002022	5839
15	HEMBA1002035	F-HEMBA1002035	303	R-HEMBA1002035	5840
	HEMBA1002039	F-HEMBA1002039	304	R-HEMBA1002039	5841
	HEMBA1002049	F-HEMBA1002049	305	R-HEMBA1002049	5842
	HEMBA1002084	F-HEMBA1002084	306	R-HEMBA1002084	5843
20	HEMBA1002092	F-HEMBA1002092	307	R-HEMBA1002092	5844
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	HEMBA1002113	F-HEMBA1002113	310	R-HEMBA1002113	5847
25	HEMBA1002119	F-HEMBA1002119	311	R-HEMBA1002119	5848
	HEMBA1002125	F-HEMBA1002125	312	R-HEMBA1002125	5849
	HEMBA1002139	F-HEMBA1002139	313	R-HEMBA1002139	5850
	HEMBA1002144	F-HEMBA1002144	314	R-HEMBA1002144	5851
30	HEMBA1002150	F-HEMBA1002150	315	R-HEMBA1002150	5852
	HEMBA1002151	F-HEMBA1002151	316	R-HEMBA1002151	5853
	HEMBA1002153	F-HEMBA1002153	317	R-HEMBA1002153	5854
	HEMBA1002160	F-HEMBA1002160	318	R-HEMBA1002160	5855
	HEMBA1002161	F-HEMBA1002161	319	R-HEMBA1002161	5856
35	HEMBA1002162	F-HEMBA1002162	320	R-HEMBA1002162	5857
	HEMBA1002166	F-HEMBA1002166	321	R-HEMBA1002166	5858
	HEMBA1002177	F-HEMBA1002177	322	R-HEMBA1002177	5859
	HEMBA1002185	F-HEMBA1002185	323	R-HEMBA1002185	5860
40	HEMBA1002189	F-HEMBA1002189	324	R-HEMBA1002189	5861
	HEMBA1002191	F-HEMBA1002191	325	R-HEMBA1002191	5862
	HEMBA1002199	F-HEMBA1002199	326	R-HEMBA1002199	5863
	HEMBA1002204	F-HEMBA1002204	327	R-HEMBA1002204	5864
45	HEMBA1002212	F-HEMBA1002212	328	R-HEMBA1002212	5865
	HEMBA1002215	F-HEMBA1002215	329	R-HEMBA1002215	5866
	HEMBA1002226	F-HEMBA1002226	330	R-HEMBA1002226	5867
	HEMBA1002229	F-HEMBA1002229	331	R-HEMBA1002229	5868
50	HEMBA1002237	F-HEMBA1002237	332	R-HEMBA1002237	5869
	HEMBA1002241	F-HEMBA1002241	333		
	HEMBA1002253	F-HEMBA1002253	334	R-HEMBA1002253	5870
	HEMBA1002257	F-HEMBA1002257	335	R-HEMBA1002257	5871
55	HEMBA1002265	F-HEMBA1002265	336		
	HEMBA1002267	F-HEMBA1002267	337	R-HEMBA1002267	5872

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	HEMBA1002270	F-HEMBA1002270	338	R-HEMBA1002270	5873
	HEMBA1002321	F-HEMBA1002321	339	R-HEMBA1002321	5874
	HEMBA1002328	F-HEMBA1002328	340	R-HEMBA1002328	5875
5	HEMBA1002337	F-HEMBA1002337	341	R-HEMBA1002337	5876
	HEMBA1002341	F-HEMBA1002341	342	R-HEMBA1002341	5877
	HEMBA1002348	F-HEMBA1002348	343	R-HEMBA1002348	5878
	HEMBA1002349	F-HEMBA1002349	344	R-HEMBA1002349	5879
10	HEMBA1002363	F-HEMBA1002363	345	R-nnnnnnnnnnnn	5880
	HEMBA1002381	F-HEMBA1002381	346	R-HEMBA1002381	5881
	HEMBA1002389	F-HEMBA1002389	347	R-HEMBA1002389	5882
	HEMBA1002417	F-HEMBA1002417	348	R-HEMBA1002417	5883
15	HEMBA1002419	F-HEMBA1002419	349	R-HEMBA1002419	5884
	HEMBA1002430	F-HEMBA1002430	350	R-HEMBA1002430	5885
	HEMBA1002439	F-HEMBA1002439	351	R-HEMBA1002439	5886
	HEMBA1002458	F-HEMBA1002458	352	R-HEMBA1002458	5887
20	HEMBA1002460	F-HEMBA1002460	353	R-HEMBA1002460	5888
	HEMBA1002462	F-HEMBA1002462	354	R-HEMBA1002462	5889
	HEMBA1002469	F-HEMBA1002469	355		
	HEMBA1002475	F-HEMBA1002475	356	R-nnnnnnnnnnnn	5890
	HEMBA1002477	F-HEMBA1002477	357	R-HEMBA1002477	5891
25	HEMBA1002486	F-HEMBA1002486	358	R-HEMBA1002486	5892
	HEMBA1002495	F-HEMBA1002495	359	R-HEMBA1002495	5893
	HEMBA1002498	F-HEMBA1002498	360	R-HEMBA1002498	5894
	HEMBA1002503	F-HEMBA1002503	361	R-HEMBA1002503	5895
30	HEMBA1002508	F-HEMBA1002508	362	R-HEMBA1002508	5896
	HEMBA1002513	F-HEMBA1002513	363	R-nnnnnnnnnnnn	5897
	HEMBA1002515	F-HEMBA1002515	364	R-HEMBA1002515	5898
	HEMBA1002538	F-HEMBA1002538	365	R-HEMBA1002538	5899
35	HEMBA1002542	F-HEMBA1002542	366	R-HEMBA1002542	5900
	HEMBA1002547	F-HEMBA1002547	367	R-HEMBA1002547	5901
	HEMBA1002552	F-HEMBA1002552	368	R-HEMBA1002552	5902
	HEMBA1002555	F-HEMBA1002555	369	R-HEMBA1002555	5903
40	HEMBA1002558	F-HEMBA1002558	370	R-HEMBA1002558	5904
	HEMBA1002561	F-HEMBA1002561	371	R-HEMBA1002561	5905
	HEMBA1002569	F-HEMBA1002569	372	R-nnnnnnnnnnnn	5906
	HEMBA1002583	F-HEMBA1002583	373	R-HEMBA1002583	5907
45	HEMBA1002590	F-HEMBA1002590	374	R-HEMBA1002590	5908
	HEMBA1002592	F-HEMBA1002592	375	R-HEMBA1002592	5909
	HEMBA1002609	F-HEMBA1002609	376		
	HEMBA1002621	F-HEMBA1002621	377	R-HEMBA1002621	5910
	HEMBA1002624	F-HEMBA1002624	378	R-HEMBA1002624	5911
50	HEMBA1002628	F-HEMBA1002628	379	R-HEMBA1002628	5912
	HEMBA1002629	F-HEMBA1002629	380	R-HEMBA1002629	5913
	HEMBA1002645	F-HEMBA1002645	381	R-HEMBA1002645	5914
	HEMBA1002651	F-HEMBA1002651	382	R-HEMBA1002651	5915
55	HEMBA1002659	F-HEMBA1002659	383	R-HEMBA1002659	5916

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	HEMBA1002661	F-HEMBA1002661	384	R-HEMBA1002661	5917
	HEMBA1002666	F-HEMBA1002666	385	R-HEMBA1002666	5918
	HEMBA1002678	F-HEMBA1002678	386	R-HEMBA1002678	5919
5	HEMBA1002679	F-HEMBA1002679	387	R-nnnnnnnnnnnnn	5920
	HEMBA1002688	F-HEMBA1002688	388	R-HEMBA1002688	5921
	HEMBA1002696	F-HEMBA1002696	389	R-HEMBA1002696	5922
	HEMBA1002703	F-HEMBA1002703	390		
10	HEMBA1002712	F-HEMBA1002712	391	R-HEMBA1002712	5923
	HEMBA1002716	F-HEMBA1002716	392	R-HEMBA1002716	5924
	HEMBA1002728	F-HEMBA1002728	393	R-HEMBA1002728	5925
	HEMBA1002730	F-HEMBA1002730	394	R-HEMBA1002730	5926
15	HEMBA1002742	F-HEMBA1002742	395	R-HEMBA1002742	5927
	HEMBA1002746	F-HEMBA1002746	396	R-HEMBA1002746	5928
	HEMBA1002748	F-HEMBA1002748	397	R-HEMBA1002748	5929
	HEMBA1002750	F-HEMBA1002750	398	R-HEMBA1002750	5930
20	HEMBA1002768	F-HEMBA1002768	399	R-HEMBA1002768	5931
	HEMBA1002770	F-HEMBA1002770	400	R-HEMBA1002770	5932
	HEMBA1002777	F-HEMBA1002777	401	R-HEMBA1002777	5933
	HEMBA1002779	F-HEMBA1002779	402	R-HEMBA1002779	5934
25	HEMBA1002780	F-HEMBA1002780	403	R-HEMBA1002780	5935
	HEMBA1002794	F-HEMBA1002794	404	R-HEMBA1002794	5936
	HEMBA1002801	F-HEMBA1002801	405	R-HEMBA1002801	5937
	HEMBA1002810	F-HEMBA1002810	406	R-HEMBA1002810	5938
30	HEMBA1002816	F-HEMBA1002816	407	R-HEMBA1002816	5939
	HEMBA1002818	F-HEMBA1002818	408		
	HEMBA1002826	F-HEMBA1002826	409	R-HEMBA1002826	5940
	HEMBA1002833	F-HEMBA1002833	410	R-HEMBA1002833	5941
35	HEMBA1002850	F-HEMBA1002850	411	R-HEMBA1002850	5942
	HEMBA1002863	F-HEMBA1002863	412	R-HEMBA1002863	5943
	HEMBA1002876	F-HEMBA1002876	413	R-HEMBA1002876	5944
	HEMBA1002886	F-HEMBA1002886	414	R-HEMBA1002886	5945
	HEMBA1002896	F-HEMBA1002896	415	R-HEMBA1002896	5946
40	HEMBA1002921	F-HEMBA1002921	416	R-HEMBA1002921	5947
	HEMBA1002924	F-HEMBA1002924	417	R-HEMBA1002924	5948
	HEMBA1002934	F-HEMBA1002934	418	R-HEMBA1002934	5949
	HEMBA1002935	F-HEMBA1002935	419	R-HEMBA1002935	5950
45	HEMBA1002937	F-HEMBA1002937	420	R-HEMBA1002937	5951
	HEMBA1002939	F-HEMBA1002939	421	R-HEMBA1002939	5952
	HEMBA1002944	F-HEMBA1002944	422	R-HEMBA1002944	5953
	HEMBA1002951	F-HEMBA1002951	423	R-HEMBA1002951	5954
50	HEMBA1002954	F-HEMBA1002954	424	R-HEMBA1002954	5955
	HEMBA1002968	F-HEMBA1002968	425	R-HEMBA1002968	5956
	HEMBA1002970	F-HEMBA1002970	426	R-HEMBA1002970	5957
	HEMBA1002971	F-HEMBA1002971	427	R-HEMBA1002971	5958
55	HEMBA1002973	F-HEMBA1002973	428	R-HEMBA1002973	5959
	HEMBA1002997	F-HEMBA1002997	429	R-nnnnnnnnnnnnn	5960

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	HEMBA1002999	F-HEMBA1002999	430	R-HEMBA1002999	5961
	HEMBA1003021	F-HEMBA1003021	431	R-HEMBA1003021	5962
	HEMBA1003033	F-HEMBA1003033	432	R-HEMBA1003033	5963
5	HEMBA1003034	F-HEMBA1003034	433	R-HEMBA1003034	5964
	HEMBA1003035	F-HEMBA1003035	434	R-HEMBA1003035	5965
	HEMBA1003037	F-HEMBA1003037	435	R-HEMBA1003037	5966
	HEMBA1003041	F-HEMBA1003041	436	R-HEMBA1003041	5967
10	HEMBA1003046	F-HEMBA1003046	437	R-HEMBA1003046	5968
	HEMBA1003064	F-HEMBA1003064	438	R-HEMBA1003064	5969
	HEMBA1003067	F-HEMBA1003067	439	R-HEMBA1003067	5970
	HEMBA1003071	F-HEMBA1003071	440	R-HEMBA1003071	5971
15	HEMBA1003077	F-HEMBA1003077	441	R-HEMBA1003077	5972
	HEMBA1003078	F-HEMBA1003078	442	R-HEMBA1003078	5973
	HEMBA1003079	F-HEMBA1003079	443	R-HEMBA1003079	5974
	HEMBA1003083	F-HEMBA1003083	444	R-HEMBA1003083	5975
20	HEMBA1003086	F-HEMBA1003086	445	R-HEMBA1003086	5976
	HEMBA1003096	F-HEMBA1003096	446	R-HEMBA1003096	5977
	HEMBA1003098	F-HEMBA1003098	447	R-HEMBA1003098	5978
	HEMBA1003117	F-HEMBA1003117	448	R-HEMBA1003117	5979
25	HEMBA1003129	F-HEMBA1003129	449	R-HEMBA1003129	5980
	HEMBA1003133	F-HEMBA1003133	450	R-HEMBA1003133	5981
	HEMBA1003136	F-HEMBA1003136	451	R-HEMBA1003136	5982
	HEMBA1003142	F-HEMBA1003142	452	R-HEMBA1003142	5983
30	HEMBA1003148	F-HEMBA1003148	453	R-HEMBA1003148	5984
	HEMBA1003166	F-HEMBA1003166	454	R-HEMBA1003166	5985
	HEMBA1003175	F-HEMBA1003175	455	R-HEMBA1003175	5986
	HEMBA1003179	F-HEMBA1003179	456		
35	HEMBA1003197	F-HEMBA1003197	457	R-HEMBA1003197	5987
	HEMBA1003199	F-HEMBA1003199	458	R-HEMBA1003199	5988
	HEMBA1003202	F-HEMBA1003202	459	R-HEMBA1003202	5989
	HEMBA1003204	F-HEMBA1003204	460	R-HEMBA1003204	5990
40	HEMBA1003212	F-HEMBA1003212	461	R-HEMBA1003212	5991
	HEMBA1003220	F-HEMBA1003220	462	R-HEMBA1003220	5992
	HEMBA1003222	F-HEMBA1003222	463	R-HEMBA1003222	5993
	HEMBA1003229	F-HEMBA1003229	464	R-HEMBA1003229	5994
45	HEMBA1003235	F-HEMBA1003235	465	R-HEMBA1003235	5995
	HEMBA1003250	F-HEMBA1003250	466	R-HEMBA1003250	5996
	HEMBA1003257	F-HEMBA1003257	467	R-HEMBA1003257	5997
	HEMBA1003273	F-HEMBA1003273	468	R-HEMBA1003273	5998
50	HEMBA1003276	F-HEMBA1003276	469	R-HEMBA1003276	5999
	HEMBA1003278	F-HEMBA1003278	470	R-HEMBA1003278	6000
	HEMBA1003281	F-HEMBA1003281	471	R-HEMBA1003281	6001
	HEMBA1003286	F-HEMBA1003286	472		
55	HEMBA1003291	F-HEMBA1003291	473	R-HEMBA1003291	6002
	HEMBA1003296	F-HEMBA1003296	474	R-HEMBA1003296	6003
	HEMBA1003304	F-HEMBA1003304	475	R-HEMBA1003304	6004

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	HEMBA1003309	F-HEMBA1003309	476	R-HEMBA1003309	6005
	HEMBA1003314	F-HEMBA1003314	477	R-HEMBA1003314	6006
	HEMBA1003322	F-HEMBA1003322	478	R-HEMBA1003322	6007
5	HEMBA1003327	F-HEMBA1003327	479	R-HEMBA1003327	6008
	HEMBA1003328	F-HEMBA1003328	480	R-HEMBA1003328	6009
	HEMBA1003330	F-HEMBA1003330	481	R-HEMBA1003330	6010
	HEMBA1003348	F-HEMBA1003348	482	R-HEMBA1003348	6011
10	HEMBA1003369	F-HEMBA1003369	483	R-HEMBA1003369	6012
	HEMBA1003370	F-HEMBA1003370	484	R-HEMBA1003370	6013
	HEMBA1003373	F-HEMBA1003373	485	R-HEMBA1003373	6014
	HEMBA1003376	F-HEMBA1003376	486	R-HEMBA1003376	6015
15	HEMBA1003380	F-HEMBA1003380	487	R-HEMBA1003380	6016
	HEMBA1003384	F-HEMBA1003384	488	R-HEMBA1003384	6017
	HEMBA1003395	F-HEMBA1003395	489	R-HEMBA1003395	6018
	HEMBA1003402	F-HEMBA1003402	490	R-HEMBA1003402	6019
20	HEMBA1003403	F-HEMBA1003403	491		
	HEMBA1003408	F-HEMBA1003408	492	R-nnnnnnnnnnnnn	6020
	HEMBA1003417	F-HEMBA1003417	493	R-HEMBA1003417	6021
	HEMBA1003418	F-HEMBA1003418	494	R-HEMBA1003418	6022
25	HEMBA1003433	F-HEMBA1003433	495	R-HEMBA1003433	6023
	HEMBA1003447	F-HEMBA1003447	496		
	HEMBA1003461	F-HEMBA1003461	497	R-HEMBA1003461	6024
	HEMBA1003463	F-HEMBA1003463	498	R-HEMBA1003463	6025
30	HEMBA1003480	F-HEMBA1003480	499	R-HEMBA1003480	6026
	HEMBA1003528	F-HEMBA1003528	500	R-HEMBA1003528	6027
	HEMBA1003531	F-HEMBA1003531	501	R-HEMBA1003531	6028
	HEMBA1003538	F-HEMBA1003538	502	R-HEMBA1003538	6029
35	HEMBA1003545	F-HEMBA1003545	503	R-HEMBA1003545	6030
	HEMBA1003548	F-HEMBA1003548	504	R-HEMBA1003548	6031
	HEMBA1003555	F-HEMBA1003555	505	R-HEMBA1003555	6032
	HEMBA1003556	F-HEMBA1003556	506	R-HEMBA1003556	6033
40	HEMBA1003560	F-HEMBA1003560	507	R-HEMBA1003560	6034
	HEMBA1003568	F-HEMBA1003568	508	R-HEMBA1003568	6035
	HEMBA1003569	F-HEMBA1003569	509	R-HEMBA1003569	6036
	HEMBA1003571	F-HEMBA1003571	510	R-HEMBA1003571	6037
	HEMBA1003579	F-HEMBA1003579	511	R-HEMBA1003579	6038
45	HEMBA1003581	F-HEMBA1003581	512	R-HEMBA1003581	6039
	HEMBA1003591	F-HEMBA1003591	513	R-HEMBA1003591	6040
	HEMBA1003595	F-HEMBA1003595	514	R-HEMBA1003595	6041
	HEMBA1003597	F-HEMBA1003597	515	R-HEMBA1003597	6042
50	HEMBA1003598	F-HEMBA1003598	516	R-HEMBA1003598	6043
	HEMBA1003615	F-HEMBA1003615	517	R-HEMBA1003615	6044
	HEMBA1003617	F-HEMBA1003617	518	R-HEMBA1003617	6045
	HEMBA1003621	F-HEMBA1003621	519	R-HEMBA1003621	6046
55	HEMBA1003622	F-HEMBA1003622	520	R-HEMBA1003622	6047
	HEMBA1003630	F-HEMBA1003630	521	R-HEMBA1003630	6048

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	HEMBA1003637	F-HEMBA1003637	522	R-HEMBA1003637	6049
	HEMBA1003640	F-HEMBA1003640	523	R-HEMBA1003640	6050
	HEMBA1003645	F-HEMBA1003645	524	R-HEMBA1003645	6051
5	HEMBA1003646	F-HEMBA1003646	525	R-HEMBA1003646	6052
	HEMBA1003656	F-HEMBA1003656	526	R-HEMBA1003656	6053
	HEMBA1003662	F-HEMBA1003662	527	R-HEMBA1003662	6054
	HEMBA1003667	F-HEMBA1003667	528	R-HEMBA1003667	6055
10	HEMBA1003679	F-HEMBA1003679	529	R-HEMBA1003679	6056
	HEMBA1003680	F-HEMBA1003680	530	R-HEMBA1003680	6057
	HEMBA1003684	F-HEMBA1003684	531	R-HEMBA1003684	6058
	HEMBA1003690	F-HEMBA1003690	532	R-HEMBA1003690	6059
15	HEMBA1003692	F-HEMBA1003692	533	R-HEMBA1003692	6060
	HEMBA1003711	F-HEMBA1003711	534	R-HEMBA1003711	6061
	HEMBA1003714	F-HEMBA1003714	535	R-HEMBA1003714	6062
	HEMBA1003715	F-HEMBA1003715	536	R-HEMBA1003715	6063
20	HEMBA1003720	F-HEMBA1003720	537	R-HEMBA1003720	6064
	HEMBA1003725	F-HEMBA1003725	538	R-HEMBA1003725	6065
	HEMBA1003729	F-HEMBA1003729	539	R-HEMBA1003729	6066
	HEMBA1003733	F-HEMBA1003733	540	R-HEMBA1003733	6067
25	HEMBA1003742	F-HEMBA1003742	541	R-HEMBA1003742	6068
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	HEMBA1003760	F-HEMBA1003760	543	R-HEMBA1003760	6070
	HEMBA1003773	F-HEMBA1003773	544	R-HEMBA1003773	6071
	HEMBA1003783	F-HEMBA1003783	545	R-HEMBA1003783	6072
30	HEMBA1003784	F-HEMBA1003784	546	R-HEMBA1003784	6073
	HEMBA1003799	F-HEMBA1003799	547	R-HEMBA1003799	6074
	HEMBA1003803	F-HEMBA1003803	548	R-HEMBA1003803	6075
	HEMBA1003804	F-HEMBA1003804	549	R-HEMBA1003804	6076
35	HEMBA1003805	F-HEMBA1003805	550	R-HEMBA1003805	6077
	HEMBA1003807	F-HEMBA1003807	551	R-HEMBA1003807	6078
	HEMBA1003827	F-HEMBA1003827	552		
	HEMBA1003836	F-HEMBA1003836	553	R-HEMBA1003836	6079
40	HEMBA1003838	F-HEMBA1003838	554	R-HEMBA1003838	6080
	HEMBA1003856	F-HEMBA1003856	555	R-HEMBA1003856	6081
	HEMBA1003864	F-HEMBA1003864	556	R-HEMBA1003864	6082
	HEMBA1003866	F-HEMBA1003866	557	R-HEMBA1003866	6083
45	HEMBA1003879	F-HEMBA1003879	558	R-HEMBA1003879	6084
	HEMBA1003880	F-HEMBA1003880	559	R-HEMBA1003880	6085
	HEMBA1003885	F-HEMBA1003885	560	R-HEMBA1003885	6086
	HEMBA1003893	F-HEMBA1003893	561	R-HEMBA1003893	6087
50	HEMBA1003902	F-HEMBA1003902	562	R-HEMBA1003902	6088
	HEMBA1003908	F-HEMBA1003908	563	R-HEMBA1003908	6089
	HEMBA1003926	F-HEMBA1003926	564	R-HEMBA1003926	6090
	HEMBA1003937	F-HEMBA1003937	565	R-HEMBA1003937	6091
55	HEMBA1003939	F-HEMBA1003939	566	R-HEMBA1003939	6092
	HEMBA1003942	F-HEMBA1003942	567	R-HEMBA1003942	6093

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	HEMBA1003950	F-HEMBA1003950	568	R-HEMBA1003950	6094
	HEMBA1003953	F-HEMBA1003953	569	R-HEMBA1003953	6095
	HEMBA1003958	F-HEMBA1003958	570	R-HEMBA1003958	6096
5	HEMBA1003959	F-HEMBA1003959	571	R-HEMBA1003959	6097
	HEMBA1003976	F-HEMBA1003976	572	R-HEMBA1003976	6098
	HEMBA1003978	F-HEMBA1003978	573	R-HEMBA1003978	6099
	HEMBA1003985	F-HEMBA1003985	574	R-HEMBA1003985	6100
10	HEMBA1003987	F-HEMBA1003987	575	R-HEMBA1003987	6101
	HEMBA1003989	F-HEMBA1003989	576	R-HEMBA1003989	6102
	HEMBA1004000	F-HEMBA1004000	577	R-HEMBA1004000	6103
	HEMBA1004011	F-HEMBA1004011	578	R-HEMBA1004011	6104
15	HEMBA1004012	F-HEMBA1004012	579	R-HEMBA1004012	6105
	HEMBA1004015	F-HEMBA1004015	580	R-HEMBA1004015	6106
	HEMBA1004024	F-HEMBA1004024	581	R-HEMBA1004024	6107
	HEMBA1004038	F-HEMBA1004038	582	R-HEMBA1004038	6108
20	HEMBA1004042	F-HEMBA1004042	583	R-HEMBA1004042	6109
	HEMBA1004045	F-HEMBA1004045	584	R-HEMBA1004045	6110
	HEMBA1004048	F-HEMBA1004048	585	R-HEMBA1004048	6111
	HEMBA1004049	F-HEMBA1004049	586	R-HEMBA1004049	6112
25	HEMBA1004055	F-HEMBA1004055	587	R-HEMBA1004055	6113
	HEMBA1004056	F-HEMBA1004056	588	R-HEMBA1004056	6114
	HEMBA1004074	F-HEMBA1004074	589	R-HEMBA1004074	6115
	HEMBA1004086	F-HEMBA1004086	590	R-HEMBA1004086	6116
30	HEMBA1004097	F-HEMBA1004097	591	R-HEMBA1004097	6117
	HEMBA1004111	F-HEMBA1004111	592		
	HEMBA1004131	F-HEMBA1004131	593	R-HEMBA1004131	6118
	HEMBA1004132	F-HEMBA1004132	594	R-HEMBA1004132	6119
	HEMBA1004133	F-HEMBA1004133	595	R-HEMBA1004133	6120
35	HEMBA1004138	F-HEMBA1004138	596	R-HEMBA1004138	6121
	HEMBA1004143	F-HEMBA1004143	597	R-HEMBA1004143	6122
	HEMBA1004146	F-HEMBA1004146	598	R-HEMBA1004146	6123
	HEMBA1004150	F-HEMBA1004150	599	R-HEMBA1004150	6124
40	HEMBA1004164	F-HEMBA1004164	600	R-HEMBA1004164	6125
	HEMBA1004168	F-HEMBA1004168	601	R-HEMBA1004168	6126
	HEMBA1004199	F-HEMBA1004199	602	R-HEMBA1004199	6127
	HEMBA1004200	F-HEMBA1004200	603	R-HEMBA1004200	6128
45	HEMBA1004202	F-HEMBA1004202	604	R-HEMBA1004202	6129
	HEMBA1004203	F-HEMBA1004203	605	R-HEMBA1004203	6130
	HEMBA1004207	F-HEMBA1004207	606	R-HEMBA1004207	6131
	HEMBA1004225	F-HEMBA1004225	607	R-HEMBA1004225	6132
50	HEMBA1004227	F-HEMBA1004227	608	R-HEMBA1004227	6133
	HEMBA1004238	F-HEMBA1004238	609	R-HEMBA1004238	6134
	HEMBA1004241	F-HEMBA1004241	610	R-HEMBA1004241	6135
	HEMBA1004246	F-HEMBA1004246	611	R-HEMBA1004246	6136
	HEMBA1004248	F-HEMBA1004248	612	R-HEMBA1004248	6137
55	HEMBA1004264	F-HEMBA1004264	613	R-HEMBA1004264	6138

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	HEMBA1004267	F-HEMBA1004267	614	R-HEMBA1004267	6139
	HEMBA1004272	F-HEMBA1004272	615	R-HEMBA1004272	6140
	HEMBA1004274	F-HEMBA1004274	616		
5	HEMBA1004275	F-HEMBA1004275	617	R-nnnnnnnnnnnnn	6141
	HEMBA1004276	F-HEMBA1004276	618	R-HEMBA1004276	6142
	HEMBA1004286	F-HEMBA1004286	619	R-HEMBA1004286	6143
	HEMBA1004289	F-HEMBA1004289	620	R-HEMBA1004289	6144
10	HEMBA1004295	F-HEMBA1004295	621	R-HEMBA1004295	6145
	HEMBA1004306	F-HEMBA1004306	622	R-HEMBA1004306	6146
	HEMBA1004312	F-HEMBA1004312	623	R-HEMBA1004312	6147
	HEMBA1004321	F-HEMBA1004321	624	R-HEMBA1004321	6148
15	HEMBA1004323	F-HEMBA1004323	625	R-HEMBA1004323	6149
	HEMBA1004327	F-HEMBA1004327	626	R-HEMBA1004327	6150
	HEMBA1004330	F-HEMBA1004330	627	R-HEMBA1004330	6151
	HEMBA1004334	F-HEMBA1004334	628	R-HEMBA1004334	6152
20	HEMBA1004335	F-HEMBA1004335	629	R-HEMBA1004335	6153
	HEMBA1004341	F-HEMBA1004341	630	R-HEMBA1004341	6154
	HEMBA1004353	F-HEMBA1004353	631	R-HEMBA1004353	6155
	HEMBA1004354	F-HEMBA1004354	632	R-HEMBA1004354	6156
25	HEMBA1004356	F-HEMBA1004356	633	R-HEMBA1004356	6157
	HEMBA1004366	F-HEMBA1004366	634	R-HEMBA1004366	6158
	HEMBA1004372	F-HEMBA1004372	635	R-HEMBA1004372	6159
	HEMBA1004389	F-HEMBA1004389	636	R-HEMBA1004389	6160
	HEMBA1004394	F-HEMBA1004394	637	R-HEMBA1004394	6161
30	HEMBA1004396	F-HEMBA1004396	638	R-HEMBA1004396	6162
	HEMBA1004405	F-HEMBA1004405	639	R-HEMBA1004405	6163
	HEMBA1004408	F-HEMBA1004408	640	R-HEMBA1004408	6164
	HEMBA1004429	F-HEMBA1004429	641	R-HEMBA1004429	6165
35	HEMBA1004433	F-HEMBA1004433	642	R-HEMBA1004433	6166
	HEMBA1004460	F-HEMBA1004460	643	R-HEMBA1004460	6167
	HEMBA1004461	F-HEMBA1004461	644	R-HEMBA1004461	6168
	HEMBA1004479	F-HEMBA1004479	645	R-HEMBA1004479	6169
40	HEMBA1004482	F-HEMBA1004482	646	R-HEMBA1004482	6170
	HEMBA1004499	F-HEMBA1004499	647		
	HEMBA1004502	F-HEMBA1004502	648	R-HEMBA1004502	6171
	HEMBA1004506	F-HEMBA1004506	649	R-HEMBA1004506	6172
45	HEMBA1004507	F-HEMBA1004507	650	R-HEMBA1004507	6173
	HEMBA1004509	F-HEMBA1004509	651	R-HEMBA1004509	6174
	HEMBA1004534	F-HEMBA1004534	652	R-HEMBA1004534	6175
	HEMBA1004538	F-HEMBA1004538	653	R-HEMBA1004538	6176
50	HEMBA1004542	F-HEMBA1004542	654		
	HEMBA1004554	F-HEMBA1004554	655	R-HEMBA1004554	6177
	HEMBA1004560	F-HEMBA1004560	656	R-HEMBA1004560	6178
	HEMBA1004573	F-HEMBA1004573	657	R-HEMBA1004573	6179
	HEMBA1004577	F-HEMBA1004577	658	R-HEMBA1004577	6180
55	HEMBA1004586	F-HEMBA1004586	659	R-HEMBA1004586	6181

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	HEMBA1004596	F-HEMBA1004596	660	R-nnnnnnnnnnnnn	6182
	HEMBA1004604	F-HEMBA1004604	661		
	HEMBA1004610	F-HEMBA1004610	662	R-HEMBA1004610	6183
5	HEMBA1004617	F-HEMBA1004617	663	R-HEMBA1004617	6184
	HEMBA1004629	F-HEMBA1004629	664	R-HEMBA1004629	6185
	HEMBA1004631	F-HEMBA1004631	665	R-HEMBA1004631	6186
	HEMBA1004632	F-HEMBA1004632	666	R-HEMBA1004632	6187
10	HEMBA1004637	F-HEMBA1004637	667	R-HEMBA1004637	6188
	HEMBA1004638	F-HEMBA1004638	668	R-HEMBA1004638	6189
	HEMBA1004666	F-HEMBA1004666	669	R-HEMBA1004666	6190
	HEMBA1004669	F-HEMBA1004669	670	R-HEMBA1004669	6191
15	HEMBA1004670	F-HEMBA1004670	671	R-HEMBA1004670	6192
	HEMBA1004672	F-HEMBA1004672	672	R-HEMBA1004672	6193
	HEMBA1004693	F-HEMBA1004693	673	R-HEMBA1004693	6194
	HEMBA1004697	F-HEMBA1004697	674	R-HEMBA1004697	6195
20	HEMBA1004705	F-HEMBA1004705	675	R-HEMBA1004705	6196
	HEMBA1004709	F-HEMBA1004709	676	R-HEMBA1004709	6197
	HEMBA1004711	F-HEMBA1004711	677	R-HEMBA1004711	6198
	HEMBA1004725	F-HEMBA1004725	678	R-HEMBA1004725	6199
25	HEMBA1004730	F-HEMBA1004730	679	R-HEMBA1004730	6200
	HEMBA1004733	F-HEMBA1004733	680	R-HEMBA1004733	6201
	HEMBA1004734	F-HEMBA1004734	681	R-HEMBA1004734	6202
	HEMBA1004736	F-HEMBA1004736	682	R-HEMBA1004736	6203
	HEMBA1004748	F-HEMBA1004748	683	R-HEMBA1004748	6204
30	HEMBA1004751	F-HEMBA1004751	684	R-HEMBA1004751	6205
	HEMBA1004752	F-HEMBA1004752	685	R-HEMBA1004752	6206
	HEMBA1004753	F-HEMBA1004753	686	R-HEMBA1004753	6207
	HEMBA1004756	F-HEMBA1004756	687	R-HEMBA1004756	6208
35	HEMBA1004758	F-HEMBA1004758	688	R-HEMBA1004758	6209
	HEMBA1004763	F-HEMBA1004763	689	R-HEMBA1004763	6210
	HEMBA1004768	F-HEMBA1004768	690	R-HEMBA1004768	6211
	HEMBA1004770	F-HEMBA1004770	691	R-HEMBA1004770	6212
40	HEMBA1004771	F-HEMBA1004771	692	R-HEMBA1004771	6213
	HEMBA1004776	F-HEMBA1004776	693	R-HEMBA1004776	6214
	HEMBA1004778	F-HEMBA1004778	694	R-HEMBA1004778	6215
	HEMBA1004795	F-HEMBA1004795	695	R-nnnnnnnnnnnnn	6216
45	HEMBA1004803	F-HEMBA1004803	696	R-HEMBA1004803	6217
	HEMBA1004806	F-HEMBA1004806	697	R-HEMBA1004806	6218
	HEMBA1004807	F-HEMBA1004807	698	R-HEMBA1004807	6219
	HEMBA1004816	F-HEMBA1004816	699	R-HEMBA1004816	6220
50	HEMBA1004820	F-HEMBA1004820	700	R-HEMBA1004820	6221
	HEMBA1004847	F-HEMBA1004847	701	R-HEMBA1004847	6222
	HEMBA1004850	F-HEMBA1004850	702	R-HEMBA1004850	6223
	HEMBA1004863	F-HEMBA1004863	703	R-HEMBA1004863	6224
	HEMBA1004864	F-HEMBA1004864	704	R-HEMBA1004864	6225
55	HEMBA1004865	F-HEMBA1004865	705	R-HEMBA1004865	6226

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	HEMBA1004880	F-HEMBA1004880	706	R-HEMBA1004880	6227
	HEMBA1004889	F-HEMBA1004889	707	R-HEMBA1004889	6228
	HEMBA1004900	F-HEMBA1004900	708	R-HEMBA1004900	6229
	HEMBA1004909	F-HEMBA1004909	709	R-HEMBA1004909	6230
5	HEMBA1004918	F-HEMBA1004918	710	R-HEMBA1004918	6231
	HEMBA1004923	F-HEMBA1004923	711	R-HEMBA1004923	6232
	HEMBA1004929	F-HEMBA1004929	712	R-HEMBA1004929	6233
	HEMBA1004930	F-HEMBA1004930	713	R-HEMBA1004930	6234
10	HEMBA1004933	F-HEMBA1004933	714	R-HEMBA1004933	6235
	HEMBA1004934	F-HEMBA1004934	715	R-HEMBA1004934	6236
	HEMBA1004944	F-HEMBA1004944	716	R-HEMBA1004944	6237
	HEMBA1004954	F-HEMBA1004954	717	R-HEMBA1004954	6238
15	HEMBA1004956	F-HEMBA1004956	718	R-HEMBA1004956	6239
	HEMBA1004960	F-HEMBA1004960	719	R-HEMBA1004960	6240
	HEMBA1004972	F-HEMBA1004972	720	R-HEMBA1004972	6241
	HEMBA1004973	F-HEMBA1004973	721	R-HEMBA1004973	6242
20	HEMBA1004977	F-HEMBA1004977	722	R-HEMBA1004977	6243
	HEMBA1004978	F-HEMBA1004978	723	R-HEMBA1004978	6244
	HEMBA1004980	F-HEMBA1004980	724	R-HEMBA1004980	6245
	HEMBA1004983	F-HEMBA1004983	725	R-HEMBA1004983	6246
25	HEMBA1004995	F-HEMBA1004995	726	R-HEMBA1004995	6247
	HEMBA1005008	F-HEMBA1005008	727	R-HEMBA1005008	6248
	HEMBA1005009	F-HEMBA1005009	728	R-HEMBA1005009	6249
	HEMBA1005019	F-HEMBA1005019	729	R-HEMBA1005019	6250
30	HEMBA1005029	F-HEMBA1005029	730	R-HEMBA1005029	6251
	HEMBA1005035	F-HEMBA1005035	731	R-HEMBA1005035	6252
	HEMBA1005039	F-HEMBA1005039	732	R-HEMBA1005039	6253
	HEMBA1005047	F-HEMBA1005047	733	R-HEMBA1005047	6254
35	HEMBA1005050	F-HEMBA1005050	734	R-HEMBA1005050	6255
	HEMBA1005062	F-HEMBA1005062	735	R-HEMBA1005062	6256
	HEMBA1005066	F-HEMBA1005066	736	R-HEMBA1005066	6257
	HEMBA1005075	F-HEMBA1005075	737	R-HEMBA1005075	6258
	HEMBA1005079	F-HEMBA1005079	738	R-HEMBA1005079	6259
40	HEMBA1005083	F-HEMBA1005083	739	R-HEMBA1005083	6260
	HEMBA1005101	F-HEMBA1005101	740	R-HEMBA1005101	6261
	HEMBA1005113	F-HEMBA1005113	741	R-HEMBA1005113	6262
	HEMBA1005123	F-HEMBA1005123	742	R-HEMBA1005123	6263
45	HEMBA1005133	F-HEMBA1005133	743	R-HEMBA1005133	6264
	HEMBA1005149	F-HEMBA1005149	744	R-HEMBA1005149	6265
	HEMBA1005152	F-HEMBA1005152	745	R-HEMBA1005152	6266
	HEMBA1005159	F-HEMBA1005159	746	R-HEMBA1005159	6267
50	HEMBA1005185	F-HEMBA1005185	747	R-HEMBA1005185	6268
	HEMBA1005201	F-HEMBA1005201	748	R-HEMBA1005201	6269
	HEMBA1005202	F-HEMBA1005202	749	R-HEMBA1005202	6270
	HEMBA1005206	F-HEMBA1005206	750		
55	HEMBA1005219	F-HEMBA1005219	751	R-HEMBA1005219	6271

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	HEMBA1005223	F-HEMBA1005223	752	R-HEMBA1005223	6272
	HEMBA1005232	F-HEMBA1005232	753	R-HEMBA1005232	6273
	HEMBA1005241	F-HEMBA1005241	754	R-HEMBA1005241	6274
5	HEMBA1005244	F-HEMBA1005244	755	R-HEMBA1005244	6275
	HEMBA1005251	F-HEMBA1005251	756	R-HEMBA1005251	6276
	HEMBA1005252	F-HEMBA1005252	757	R-HEMBA1005252	6277
	HEMBA1005274	F-HEMBA1005274	758	R-HEMBA1005274	6278
10	HEMBA1005275	F-HEMBA1005275	759	R-HEMBA1005275	6279
	HEMBA1005293	F-HEMBA1005293	760	R-HEMBA1005293	6280
	HEMBA1005296	F-HEMBA1005296	761	R-HEMBA1005296	6281
	HEMBA1005304	F-HEMBA1005304	762	R-HEMBA1005304	6282
15	HEMBA1005311	F-HEMBA1005311	763	R-HEMBA1005311	6283
	HEMBA1005314	F-HEMBA1005314	764	R-HEMBA1005314	6284
	HEMBA1005315	F-HEMBA1005315	765	R-HEMBA1005315	6285
	HEMBA1005318	F-HEMBA1005318	766	R-HEMBA1005318	6286
20	HEMBA1005331	F-HEMBA1005331	767	R-HEMBA1005331	6287
	HEMBA1005338	F-HEMBA1005338	768		
	HEMBA1005353	F-HEMBA1005353	769	R-HEMBA1005353	6288
	HEMBA1005359	F-HEMBA1005359	770	R-HEMBA1005359	6289
	HEMBA1005367	F-HEMBA1005367	771	R-HEMBA1005367	6290
25	HEMBA1005372	F-HEMBA1005372	772	R-HEMBA1005372	6291
	HEMBA1005374	F-HEMBA1005374	773	R-HEMBA1005374	6292
	HEMBA1005382	F-HEMBA1005382	774		
	HEMBA1005389	F-HEMBA1005389	775	R-HEMBA1005389	6293
30	HEMBA1005394	F-HEMBA1005394	776	R-HEMBA1005394	6294
	HEMBA1005403	F-HEMBA1005403	777	R-HEMBA1005403	6295
	HEMBA1005408	F-HEMBA1005408	778	R-HEMBA1005408	6296
	HEMBA1005410	F-HEMBA1005410	779	R-HEMBA1005410	6297
35	HEMBA1005411	F-HEMBA1005411	780	R-HEMBA1005411	6298
	HEMBA1005423	F-HEMBA1005423	781	R-HEMBA1005423	6299
	HEMBA1005426	F-HEMBA1005426	782	R-HEMBA1005426	6300
	HEMBA1005443	F-HEMBA1005443	783	R-HEMBA1005443	6301
40	HEMBA1005447	F-HEMBA1005447	784	R-HEMBA1005447	6302
	HEMBA1005468	F-HEMBA1005468	785	R-HEMBA1005468	6303
	HEMBA1005469	F-HEMBA1005469	786	R-HEMBA1005469	6304
	HEMBA1005472	F-HEMBA1005472	787	R-HEMBA1005472	6305
	HEMBA1005474	F-HEMBA1005474	788		
45	HEMBA1005475	F-HEMBA1005475	789	R-HEMBA1005475	6306
	HEMBA1005497	F-HEMBA1005497	790	R-HEMBA1005497	6307
	HEMBA1005500	F-HEMBA1005500	791	R-HEMBA1005500	6308
	HEMBA1005506	F-HEMBA1005506	792	R-HEMBA1005506	6309
50	HEMBA1005508	F-HEMBA1005508	793	R-HEMBA1005508	6310
	HEMBA1005511	F-HEMBA1005511	794	R-HEMBA1005511	6311
	HEMBA1005513	F-HEMBA1005513	795		
	HEMBA1005517	F-HEMBA1005517	796	R-HEMBA1005517	6312
55	HEMBA1005518	F-HEMBA1005518	797	R-HEMBA1005518	6313

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	HEMBA1005520	F-HEMBA1005520	798	R-HEMBA1005520	6314
	HEMBA1005526	F-HEMBA1005526	799	R-HEMBA1005526	6315
	HEMBA1005528	F-HEMBA1005528	800	R-HEMBA1005528	6316
5	HEMBA1005530	F-HEMBA1005530	801	R-HEMBA1005530	6317
	HEMBA1005548	F-HEMBA1005548	802	R-HEMBA1005548	6318
	HEMBA1005552	F-HEMBA1005552	803	R-HEMBA1005552	6319
	HEMBA1005558	F-HEMBA1005558	804	R-HEMBA1005558	6320
10	HEMBA1005568	F-HEMBA1005568	805	R-HEMBA1005568	6321
	HEMBA1005570	F-HEMBA1005570	806	R-HEMBA1005570	6322
	HEMBA1005576	F-HEMBA1005576	807	R-HEMBA1005576	6323
	HEMBA1005577	F-HEMBA1005577	808	R-HEMBA1005577	6324
15	HEMBA1005581	F-HEMBA1005581	809	R-HEMBA1005581	6325
	HEMBA1005582	F-HEMBA1005582	810	R-HEMBA1005582	6326
	HEMBA1005583	F-HEMBA1005583	811	R-HEMBA1005583	6327
	HEMBA1005588	F-HEMBA1005588	812	R-HEMBA1005588	6328
20	HEMBA1005593	F-HEMBA1005593	813	R-HEMBA1005593	6329
	HEMBA1005595	F-HEMBA1005595	814	R-HEMBA1005595	6330
	HEMBA1005606	F-HEMBA1005606	815	R-HEMBA1005606	6331
	HEMBA1005609	F-HEMBA1005609	816	R-HEMBA1005609	6332
	HEMBA1005616	F-HEMBA1005616	817	R-HEMBA1005616	6333
25	HEMBA1005621	F-HEMBA1005621	818	R-HEMBA1005621	6334
	HEMBA1005627	F-HEMBA1005627	819	R-HEMBA1005627	6335
	HEMBA1005631	F-HEMBA1005631	820	R-HEMBA1005631	6336
	HEMBA1005632	F-HEMBA1005632	821	R-HEMBA1005632	6337
30	HEMBA1005634	F-HEMBA1005634	822	R-HEMBA1005634	6338
	HEMBA1005666	F-HEMBA1005666	823	R-HEMBA1005666	6339
	HEMBA1005670	F-HEMBA1005670	824	R-HEMBA1005670	6340
	HEMBA1005679	F-HEMBA1005679	825	R-HEMBA1005679	6341
35	HEMBA1005680	F-HEMBA1005680	826	R-HEMBA1005680	6342
	HEMBA1005685	F-HEMBA1005685	827	R-HEMBA1005685	6343
	HEMBA1005699	F-HEMBA1005699	828	R-HEMBA1005699	6344
	HEMBA1005705	F-HEMBA1005705	829	R-HEMBA1005705	6345
40	HEMBA1005717	F-HEMBA1005717	830	R-HEMBA1005717	6346
	HEMBA1005732	F-HEMBA1005732	831	R-HEMBA1005732	6347
	HEMBA1005737	F-HEMBA1005737	832	R-HEMBA1005737	6348
	HEMBA1005746	F-HEMBA1005746	833	R-nnnnnnnnnnnn	6349
45	HEMBA1005755	F-HEMBA1005755	834	R-HEMBA1005755	6350
	HEMBA1005765	F-HEMBA1005765	835	R-HEMBA1005765	6351
	HEMBA1005780	F-HEMBA1005780	836	R-HEMBA1005780	6352
	HEMBA1005813	F-HEMBA1005813	837	R-HEMBA1005813	6353
	HEMBA1005815	F-HEMBA1005815	838	R-HEMBA1005815	6354
50	HEMBA1005822	F-HEMBA1005822	839	R-HEMBA1005822	6355
	HEMBA1005829	F-HEMBA1005829	840	R-HEMBA1005829	6356
	HEMBA1005834	F-HEMBA1005834	841	R-HEMBA1005834	6357
	HEMBA1005852	F-HEMBA1005852	842	R-HEMBA1005852	6358
55	HEMBA1005853	F-HEMBA1005853	843	R-HEMBA1005853	6359

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	HEMBA1005884	F-HEMBA1005884	844	R-HEMBA1005884	6360
	HEMBA1005891	F-HEMBA1005891	845	R-HEMBA1005891	6361
	HEMBA1005894	F-HEMBA1005894	846	R-HEMBA1005894	6362
5	HEMBA1005909	F-HEMBA1005909	847	R-HEMBA1005909	6363
	HEMBA1005911	F-HEMBA1005911	848	R-HEMBA1005911	6364
	HEMBA1005921	F-HEMBA1005921	849	R-HEMBA1005921	6365
	HEMBA1005931	F-HEMBA1005931	850	R-HEMBA1005931	6366
10	HEMBA1005934	F-HEMBA1005934	851	R-HEMBA1005934	6367
	HEMBA1005962	F-HEMBA1005962	852	R-HEMBA1005962	6368
	HEMBA1005963	F-HEMBA1005963	853	R-HEMBA1005963	6369
	HEMBA1005990	F-HEMBA1005990	854	R-HEMBA1005990	6370
15	HEMBA1005991	F-HEMBA1005991	855	R-HEMBA1005991	6371
	HEMBA1005999	F-HEMBA1005999	856	R-HEMBA1005999	6372
	HEMBA1006002	F-HEMBA1006002	857	R-HEMBA1006002	6373
	HEMBA1006005	F-HEMBA1006005	858	R-HEMBA1006005	6374
20	HEMBA1006031	F-HEMBA1006031	859	R-nnnnnnnnnnnnn	6375
	HEMBA1006035	F-HEMBA1006035	860	R-HEMBA1006035	6376
	HEMBA1006036	F-HEMBA1006036	861	R-HEMBA1006036	6377
	HEMBA1006042	F-HEMBA1006042	862	R-HEMBA1006042	6378
	HEMBA1006067	F-HEMBA1006067	863	R-nnnnnnnnnnnnn	6379
25	HEMBA1006081	F-HEMBA1006081	864	R-HEMBA1006081	6380
	HEMBA1006090	F-HEMBA1006090	865	R-HEMBA1006090	6381
	HEMBA1006091	F-HEMBA1006091	866	R-HEMBA1006091	6382
	HEMBA1006100	F-HEMBA1006100	867	R-HEMBA1006100	6383
30	HEMBA1006108	F-HEMBA1006108	868	R-HEMBA1006108	6384
	HEMBA1006121	F-HEMBA1006121	869	R-HEMBA1006121	6385
	HEMBA1006124	F-HEMBA1006124	870	R-HEMBA1006124	6386
	HEMBA1006130	F-HEMBA1006130	871	R-HEMBA1006130	6387
35	HEMBA1006138	F-HEMBA1006138	872	R-nnnnnnnnnnnnn	6388
	HEMBA1006142	F-HEMBA1006142	873	R-HEMBA1006142	6389
	HEMBA1006155	F-HEMBA1006155	874	R-HEMBA1006155	6390
	HEMBA1006158	F-HEMBA1006158	875	R-HEMBA1006158	6391
40	HEMBA1006173	F-HEMBA1006173	876	R-HEMBA1006173	6392
	HEMBA1006182	F-HEMBA1006182	877	R-HEMBA1006182	6393
	HEMBA1006198	F-HEMBA1006198	878	R-HEMBA1006198	6394
	HEMBA1006235	F-HEMBA1006235	879	R-HEMBA1006235	6395
45	HEMBA1006248	F-HEMBA1006248	880	R-HEMBA1006248	6396
	HEMBA1006252	F-HEMBA1006252	881	R-HEMBA1006252	6397
	HEMBA1006253	F-HEMBA1006253	882	R-HEMBA1006253	6398
	HEMBA1006259	F-HEMBA1006259	883	R-HEMBA1006259	6399
50	HEMBA1006268	F-HEMBA1006268	884	R-HEMBA1006268	6400
	HEMBA1006272	F-HEMBA1006272	885	R-HEMBA1006272	6401
	HEMBA1006278	F-HEMBA1006278	886	R-nnnnnnnnnnnnn	6402
	HEMBA1006283	F-HEMBA1006283	887	R-HEMBA1006283	6403
	HEMBA1006284	F-HEMBA1006284	888	R-HEMBA1006284	6404
55	HEMBA1006291	F-HEMBA1006291	889	R-HEMBA1006291	6405

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	HEMBA1006293	F-HEMBA1006293	890	R-HEMBA1006293	6406
	HEMBA1006309	F-HEMBA1006309	891	R-HEMBA1006309	6407
	HEMBA1006310	F-HEMBA1006310	892	R-HEMBA1006310	6408
5	HEMBA1006328	F-HEMBA1006328	893	R-HEMBA1006328	6409
	HEMBA1006334	F-HEMBA1006334	894	R-HEMBA1006334	6410
	HEMBA1006344	F-HEMBA1006344	895	R-HEMBA1006344	6411
	HEMBA1006347	F-HEMBA1006347	896	R-HEMBA1006347	6412
10	HEMBA1006349	F-HEMBA1006349	897	R-HEMBA1006349	6413
	HEMBA1006359	F-HEMBA1006359	898	R-HEMBA1006359	6414
	HEMBA1006364	F-HEMBA1006364	899	R-HEMBA1006364	6415
	HEMBA1006377	F-HEMBA1006377	900	R-HEMBA1006377	6416
15	HEMBA1006380	F-HEMBA1006380	901	R-HEMBA1006380	6417
	HEMBA1006381	F-HEMBA1006381	902	R-HEMBA1006381	6418
	HEMBA1006398	F-HEMBA1006398	903	R-HEMBA1006398	6419
	HEMBA1006416	F-HEMBA1006416	904	R-HEMBA1006416	6420
20	HEMBA1006419	F-HEMBA1006419	905	R-HEMBA1006419	6421
	HEMBA1006421	F-HEMBA1006421	906	R-HEMBA1006421	6422
	HEMBA1006424	F-HEMBA1006424	907	R-HEMBA1006424	6423
	HEMBA1006426	F-HEMBA1006426	908	R-HEMBA1006426	6424
25	HEMBA1006438	F-HEMBA1006438	909	R-HEMBA1006438	6425
	HEMBA1006445	F-HEMBA1006445	910	R-HEMBA1006445	6426
	HEMBA1006446	F-HEMBA1006446	911	R-HEMBA1006446	6427
	HEMBA1006461	F-HEMBA1006461	912	R-HEMBA1006461	6428
	HEMBA1006467	F-HEMBA1006467	913	R-HEMBA1006467	6429
30	HEMBA1006471	F-HEMBA1006471	914	R-HEMBA1006471	6430
	HEMBA1006474	F-HEMBA1006474	915	R-HEMBA1006474	6431
	HEMBA1006483	F-HEMBA1006483	916	R-HEMBA1006483	6432
	HEMBA1006485	F-HEMBA1006485	917	R-HEMBA1006485	6433
35	HEMBA1006486	F-HEMBA1006486	918	R-HEMBA1006486	6434
	HEMBA1006489	F-HEMBA1006489	919	R-HEMBA1006489	6435
	HEMBA1006492	F-HEMBA1006492	920	R-HEMBA1006492	6436
	HEMBA1006494	F-HEMBA1006494	921	R-HEMBA1006494	6437
40	HEMBA1006497	F-HEMBA1006497	922	R-HEMBA1006497	6438
	HEMBA1006502	F-HEMBA1006502	923	R-HEMBA1006502	6439
	HEMBA1006507	F-HEMBA1006507	924	R-HEMBA1006507	6440
	HEMBA1006521	F-HEMBA1006521	925	R-HEMBA1006521	6441
45	HEMBA1006530	F-HEMBA1006530	926	R-HEMBA1006530	6442
	HEMBA1006535	F-HEMBA1006535	927	R-HEMBA1006535	6443
	HEMBA1006540	F-HEMBA1006540	928	R-HEMBA1006540	6444
	HEMBA1006546	F-HEMBA1006546	929	R-HEMBA1006546	6445
	HEMBA1006559	F-HEMBA1006559	930	R-HEMBA1006559	6446
50	HEMBA1006562	F-HEMBA1006562	931	R-HEMBA1006562	6447
	HEMBA1006566	F-HEMBA1006566	932	R-HEMBA1006566	6448
	HEMBA1006569	F-HEMBA1006569	933	R-HEMBA1006569	6449
	HEMBA1006579	F-HEMBA1006579	934	R-HEMBA1006579	6450
55	HEMBA1006583	F-HEMBA1006583	935	R-HEMBA1006583	6451

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	HEMBA1006595	F-HEMBA1006595	936	R-HEMBA1006595	6452
	HEMBA1006597	F-HEMBA1006597	937	R-HEMBA1006597	6453
	HEMBA1006612	F-HEMBA1006612	938	R-HEMBA1006612	6454
5	HEMBA1006617	F-HEMBA1006617	939	R-nnnnnnnnnnnnn	6455
	HEMBA1006624	F-HEMBA1006624	940	R-HEMBA1006624	6456
	HEMBA1006631	F-HEMBA1006631	941	R-HEMBA1006631	6457
	HEMBA1006635	F-HEMBA1006635	942	R-HEMBA1006635	6458
10	HEMBA1006639	F-HEMBA1006639	943	R-HEMBA1006639	6459
	HEMBA1006643	F-HEMBA1006643	944	R-HEMBA1006643	6460
	HEMBA1006648	F-HEMBA1006648	945	R-HEMBA1006648	6461
	HEMBA1006652	F-HEMBA1006652	946	R-HEMBA1006652	6462
15	HEMBA1006653	F-HEMBA1006653	947	R-HEMBA1006653	6463
	HEMBA1006659	F-HEMBA1006659	948		
	HEMBA1006665	F-HEMBA1006665	949	R-HEMBA1006665	6464
	HEMBA1006674	F-HEMBA1006674	950	R-HEMBA1006674	6465
20	HEMBA1006676	F-HEMBA1006676	951	R-HEMBA1006676	6466
	HEMBA1006682	F-HEMBA1006682	952	R-HEMBA1006682	6467
	HEMBA1006695	F-HEMBA1006695	953	R-HEMBA1006695	6468
	HEMBA1006696	F-HEMBA1006696	954	R-HEMBA1006696	6469
25	HEMBA1006708	F-HEMBA1006708	955	R-HEMBA1006708	6470
	HEMBA1006709	F-HEMBA1006709	956	R-HEMBA1006709	6471
	HEMBA1006717	F-HEMBA1006717	957	R-HEMBA1006717	6472
	HEMBA1006737	F-HEMBA1006737	958	R-HEMBA1006737	6473
	HEMBA1006744	F-HEMBA1006744	959	R-HEMBA1006744	6474
30	HEMBA1006754	F-HEMBA1006754	960	R-HEMBA1006754	6475
	HEMBA1006758	F-HEMBA1006758	961	R-HEMBA1006758	6476
	HEMBA1006767	F-HEMBA1006767	962	R-HEMBA1006767	6477
	HEMBA1006779	F-HEMBA1006779	963	R-HEMBA1006779	6478
35	HEMBA1006780	F-HEMBA1006780	964	R-HEMBA1006780	6479
	HEMBA1006789	F-HEMBA1006789	965	R-HEMBA1006789	6480
	HEMBA1006795	F-HEMBA1006795	966	R-HEMBA1006795	6481
	HEMBA1006796	F-HEMBA1006796	967	R-HEMBA1006796	6482
40	HEMBA1006807	F-HEMBA1006807	968	R-HEMBA1006807	6483
	HEMBA1006821	F-HEMBA1006821	969	R-HEMBA1006821	6484
	HEMBA1006824	F-HEMBA1006824	970	R-HEMBA1006824	6485
	HEMBA1006832	F-HEMBA1006832	971	R-HEMBA1006832	6486
45	HEMBA1006849	F-HEMBA1006849	972	R-HEMBA1006849	6487
	HEMBA1006865	F-HEMBA1006865	973	R-HEMBA1006865	6488
	HEMBA1006877	F-HEMBA1006877	974	R-nnnnnnnnnnnnn	6489
	HEMBA1006885	F-HEMBA1006885	975	R-HEMBA1006885	6490
50	HEMBA1006900	F-HEMBA1006900	976	R-HEMBA1006900	6491
	HEMBA1006914	F-HEMBA1006914	977		
	HEMBA1006921	F-HEMBA1006921	978	R-HEMBA1006921	6492
	HEMBA1006926	F-HEMBA1006926	979	R-HEMBA1006926	6493
	HEMBA1006929	F-HEMBA1006929	980	R-HEMBA1006929	6494
55	HEMBA1006936	F-HEMBA1006936	981	R-HEMBA1006936	6495

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	HEMBA1006938	F-HEMBA1006938	982	R-HEMBA1006938	6496
	HEMBA1006941	F-HEMBA1006941	983	R-HEMBA1006941	6497
	HEMBA1006949	F-HEMBA1006949	984	R-HEMBA1006949	6498
5	HEMBA1006973	F-HEMBA1006973	985	R-HEMBA1006973	6499
	HEMBA1006976	F-HEMBA1006976	986	R-HEMBA1006976	6500
	HEMBA1006993	F-HEMBA1006993	987	R-HEMBA1006993	6501
	HEMBA1006996	F-HEMBA1006996	988	R-HEMBA1006996	6502
10	HEMBA1007002	F-HEMBA1007002	989	R-HEMBA1007002	6503
	HEMBA1007017	F-HEMBA1007017	990	R-HEMBA1007017	6504
	HEMBA1007018	F-HEMBA1007018	991	R-HEMBA1007018	6505
	HEMBA1007045	F-HEMBA1007045	992	R-HEMBA1007045	6506
15	HEMBA1007051	F-HEMBA1007051	993	R-HEMBA1007051	6507
	HEMBA1007052	F-HEMBA1007052	994	R-HEMBA1007052	6508
	HEMBA1007062	F-HEMBA1007062	995	R-HEMBA1007062	6509
	HEMBA1007066	F-HEMBA1007066	996	R-HEMBA1007066	6510
20	HEMBA1007073	F-HEMBA1007073	997	R-HEMBA1007073	6511
	HEMBA1007078	F-HEMBA1007078	998	R-HEMBA1007078	6512
	HEMBA1007080	F-HEMBA1007080	999		
	HEMBA1007085	F-HEMBA1007085	1000	R-HEMBA1007085	6513
	HEMBA1007087	F-HEMBA1007087	1001	R-HEMBA1007087	6514
25	HEMBA1007112	F-HEMBA1007112	1002	R-HEMBA1007112	6515
	HEMBA1007113	F-HEMBA1007113	1003	R-HEMBA1007113	6516
	HEMBA1007121	F-HEMBA1007121	1004		
	HEMBA1007129	F-HEMBA1007129	1005	R-HEMBA1007129	6517
30	HEMBA1007147	F-HEMBA1007147	1006	R-HEMBA1007147	6518
	HEMBA1007149	F-HEMBA1007149	1007	R-HEMBA1007149	6519
	HEMBA1007151	F-HEMBA1007151	1008	R-HEMBA1007151	6520
	HEMBA1007174	F-HEMBA1007174	1009	R-HEMBA1007174	6521
35	HEMBA1007178	F-HEMBA1007178	1010	R-HEMBA1007178	6522
	HEMBA1007194	F-HEMBA1007194	1011	R-HEMBA1007194	6523
	HEMBA1007203	F-HEMBA1007203	1012	R-HEMBA1007203	6524
	HEMBA1007206	F-HEMBA1007206	1013	R-HEMBA1007206	6525
40	HEMBA1007224	F-HEMBA1007224	1014	R-HEMBA1007224	6526
	HEMBA1007243	F-HEMBA1007243	1015		
	HEMBA1007251	F-HEMBA1007251	1016	R-HEMBA1007251	6527
	HEMBA1007256	F-HEMBA1007256	1017	R-HEMBA1007256	6528
	HEMBA1007267	F-HEMBA1007267	1018	R-HEMBA1007267	6529
45	HEMBA1007273	F-HEMBA1007273	1019	R-HEMBA1007273	6530
	HEMBA1007279	F-HEMBA1007279	1020	R-HEMBA1007279	6531
	HEMBA1007281	F-HEMBA1007281	1021	R-HEMBA1007281	6532
	HEMBA1007288	F-HEMBA1007288	1022	R-HEMBA1007288	6533
50	HEMBA1007300	F-HEMBA1007300	1023	R-HEMBA1007300	6534
	HEMBA1007301	F-HEMBA1007301	1024	R-HEMBA1007301	6535
	HEMBA1007319	F-HEMBA1007319	1025	R-HEMBA1007319	6536
	HEMBA1007320	F-HEMBA1007320	1026	R-HEMBA1007320	6537
55	HEMBA1007322	F-HEMBA1007322	1027	R-HEMBA1007322	6538

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	HEMBA1007327	F-HEMBA1007327	1028	R-HEMBA1007327	6539
	HEMBA1007341	F-HEMBA1007341	1029	R-HEMBA1007341	6540
	HEMBA1007342	F-HEMBA1007342	1030	R-HEMBA1007342	6541
5	HEMBA1007347	F-HEMBA1007347	1031	R-HEMBA1007347	6542
	HEMBB1000005	F-HEMBB1000005	1032	R-HEMBB1000005	6543
	HEMBB1000008	F-HEMBB1000008	1033	R-HEMBB1000008	6544
	HEMBB1000018	F-HEMBB1000018	1034	R-HEMBB1000018	6545
10	HEMBB1000024	F-HEMBB1000024	1035	R-HEMBB1000024	6546
	HEMBB1000025	F-HEMBB1000025	1036	R-HEMBB1000025	6547
	HEMBB1000030	F-HEMBB1000030	1037	R-HEMBB1000030	6548
	HEMBB1000036	F-HEMBB1000036	1038	R-HEMBB1000036	6549
15	HEMBB1000037	F-HEMBB1000037	1039	R-HEMBB1000037	6550
	HEMBB1000039	F-HEMBB1000039	1040	R-HEMBB1000039	6551
	HEMBB1000044	F-HEMBB1000044	1041	R-HEMBB1000044	6552
	HEMBB1000048	F-HEMBB1000048	1042	R-HEMBB1000048	6553
	HEMBB1000050	F-HEMBB1000050	1043	R-HEMBB1000050	6554
20	HEMBB1000054	F-HEMBB1000054	1044	R-HEMBB1000054	6555
	HEMBB1000055	F-HEMBB1000055	1045	R-HEMBB1000055	6556
	HEMBB1000059	F-HEMBB1000059	1046	R-HEMBB1000059	6557
	HEMBB1000083	F-HEMBB1000083	1047	R-HEMBB1000083	6558
25	HEMBB1000089	F-HEMBB1000089	1048	R-HEMBB1000089	6559
	HEMBB1000099	F-HEMBB1000099	1049	R-HEMBB1000099	6560
	HEMBB1000103	F-HEMBB1000103	1050	R-HEMBB1000103	6561
	HEMBB1000113	F-HEMBB1000113	1051	R-HEMBB1000113	6562
30	HEMBB1000119	F-HEMBB1000119	1052	R-HEMBB1000119	6563
	HEMBB1000136	F-HEMBB1000136	1053	R-HEMBB1000136	6564
	HEMBB1000141	F-HEMBB1000141	1054	R-HEMBB1000141	6565
	HEMBB1000144	F-HEMBB1000144	1055	R-HEMBB1000144	6566
35	HEMBB1000173	F-HEMBB1000173	1056	R-HEMBB1000173	6567
	HEMBB1000175	F-HEMBB1000175	1057	R-HEMBB1000175	6568
	HEMBB1000198	F-HEMBB1000198	1058	R-HEMBB1000198	6569
	HEMBB1000215	F-HEMBB1000215	1059	R-HEMBB1000215	6570
	HEMBB1000217	F-HEMBB1000217	1060	R-HEMBB1000217	6571
40	HEMBB1000218	F-HEMBB1000218	1061	R-HEMBB1000218	6572
	HEMBB1000226	F-HEMBB1000226	1062	R-HEMBB1000226	6573
	HEMBB1000240	F-HEMBB1000240	1063	R-HEMBB1000240	6574
	HEMBB1000244	F-HEMBB1000244	1064	R-HEMBB1000244	6575
45	HEMBB1000250	F-HEMBB1000250	1065	R-HEMBB1000250	6576
	HEMBB1000258	F-HEMBB1000258	1066	R-HEMBB1000258	6577
	HEMBB1000264	F-HEMBB1000264	1067	R-HEMBB1000264	6578
	HEMBB1000266	F-HEMBB1000266	1068	R-HEMBB1000266	6579
50	HEMBB1000272	F-HEMBB1000272	1069	R-HEMBB1000272	6580
	HEMBB1000274	F-HEMBB1000274	1070	R-HEMBB1000274	6581
	HEMBB1000284	F-HEMBB1000284	1071	R-HEMBB1000284	6582
	HEMBB1000307	F-HEMBB1000307	1072	R-HEMBB1000307	6583
55	HEMBB1000312	F-HEMBB1000312	1073	R-HEMBB1000312	6584

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	HEMBB1000317	F-HEMBB1000317	1074	R-HEMBB1000317	6585
	HEMBB1000318	F-HEMBB1000318	1075	R-HEMBB1000318	6586
	HEMBB1000335	F-HEMBB1000335	1076	R-HEMBB1000335	6587
5	HEMBB1000336	F-HEMBB1000336	1077	R-HEMBB1000336	6588
	HEMBB1000337	F-HEMBB1000337	1078	R-HEMBB1000337	6589
	HEMBB1000338	F-HEMBB1000338	1079	R-HEMBB1000338	6590
	HEMBB1000339	F-HEMBB1000339	1080	R-HEMBB1000339	6591
10	HEMBB1000341	F-HEMBB1000341	1081	R-HEMBB1000341	6592
	HEMBB1000343	F-HEMBB1000343	1082	R-HEMBB1000343	6593
	HEMBB1000354	F-HEMBB1000354	1083	R-HEMBB1000354	6594
	HEMBB1000369	F-HEMBB1000369	1084	R-HEMBB1000369	6595
15	HEMBB1000374	F-HEMBB1000374	1085	R-HEMBB1000374	6596
	HEMBB1000376	F-HEMBB1000376	1086	R-HEMBB1000376	6597
	HEMBB1000391	F-HEMBB1000391	1087	R-HEMBB1000391	6598
	HEMBB1000399	F-HEMBB1000399	1088	R-HEMBB1000399	6599
20	HEMBB1000402	F-HEMBB1000402	1089	R-HEMBB1000402	6600
	HEMBB1000404	F-HEMBB1000404	1090	R-HEMBB1000404	6601
	HEMBB1000420	F-HEMBB1000420	1091	R-HEMBB1000420	6602
	HEMBB1000434	F-HEMBB1000434	1092	R-HEMBB1000434	6603
	HEMBB1000438	F-HEMBB1000438	1093	R-HEMBB1000438	6604
25	HEMBB1000441	F-HEMBB1000441	1094	R-HEMBB1000441	6605
	HEMBB1000449	F-HEMBB1000449	1095	R-HEMBB1000449	6606
	HEMBB1000455	F-HEMBB1000455	1096	R-HEMBB1000455	6607
	HEMBB1000472	F-HEMBB1000472	1097	R-HEMBB1000472	6608
30	HEMBB1000480	F-HEMBB1000480	1098	R-HEMBB1000480	6609
	HEMBB1000487	F-HEMBB1000487	1099	R-HEMBB1000487	6610
	HEMBB1000490	F-HEMBB1000490	1100	R-HEMBB1000490	6611
	HEMBB1000491	F-HEMBB1000491	1101	R-HEMBB1000491	6612
35	HEMBB1000493	F-HEMBB1000493	1102	R-HEMBB1000493	6613
	HEMBB1000510	F-HEMBB1000510	1103	R-HEMBB1000510	6614
	HEMBB1000518	F-HEMBB1000518	1104	R-HEMBB1000518	6615
	HEMBB1000523	F-HEMBB1000523	1105	R-HEMBB1000523	6616
40	HEMBB1000530	F-HEMBB1000530	1106	R-HEMBB1000530	6617
	HEMBB1000550	F-HEMBB1000550	1107	R-HEMBB1000550	6618
	HEMBB1000554	F-HEMBB1000554	1108	R-HEMBB1000554	6619
	HEMBB1000556	F-HEMBB1000556	1109	R-HEMBB1000556	6620
45	HEMBB1000564	F-HEMBB1000564	1110	R-HEMBB1000564	6621
	HEMBB1000573	F-HEMBB1000573	1111	R-HEMBB1000573	6622
	HEMBB1000575	F-HEMBB1000575	1112	R-HEMBB1000575	6623
	HEMBB1000586	F-HEMBB1000586	1113	R-HEMBB1000586	6624
	HEMBB1000589	F-HEMBB1000589	1114	R-HEMBB1000589	6625
50	HEMBB1000591	F-HEMBB1000591	1115	R-HEMBB1000591	6626
	HEMBB1000592	F-HEMBB1000592	1116	R-HEMBB1000592	6627
	HEMBB1000593	F-HEMBB1000593	1117		
	HEMBB1000598	F-HEMBB1000598	1118	R-HEMBB1000598	6628
55	HEMBB1000623	F-HEMBB1000623	1119	R-HEMBB1000623	6629

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	HEMBB1000630	F-HEMBB1000630	1120	R-HEMBB1000630	6630
	HEMBB1000631	F-HEMBB1000631	1121	R-HEMBB1000631	6631
	HEMBB1000632	F-HEMBB1000632	1122	R-HEMBB1000632	6632
5	HEMBB1000637	F-HEMBB1000637	1123	R-HEMBB1000637	6633
	HEMBB1000638	F-HEMBB1000638	1124	R-HEMBB1000638	6634
	HEMBB1000643	F-HEMBB1000643	1125	R-HEMBB1000643	6635
	HEMBB1000649	F-HEMBB1000649	1126	R-HEMBB1000649	6636
10	HEMBB1000652	F-HEMBB1000652	1127	R-HEMBB1000652	6637
	HEMBB1000665	F-HEMBB1000665	1128	R-HEMBB1000665	6638
	HEMBB1000671	F-HEMBB1000671	1129	R-HEMBB1000671	6639
	HEMBB1000673	F-HEMBB1000673	1130	R-HEMBB1000673	6640
15	HEMBB1000684	F-HEMBB1000684	1131	R-HEMBB1000684	6641
	HEMBB1000693	F-HEMBB1000693	1132	R-nnnnnnnnnnnnn	6642
	HEMBB1000705	F-HEMBB1000705	1133	R-HEMBB1000705	6643
	HEMBB1000706	F-HEMBB1000706	1134	R-HEMBB1000706	6644
20	HEMBB1000709	F-HEMBB1000709	1135	R-HEMBB1000709	6645
	HEMBB1000725	F-HEMBB1000725	1136	R-HEMBB1000725	6646
	HEMBB1000726	F-HEMBB1000726	1137	R-HEMBB1000726	6647
	HEMBB1000738	F-HEMBB1000738	1138	R-HEMBB1000738	6648
25	HEMBB1000749	F-HEMBB1000749	1139	R-HEMBB1000749	6649
	HEMBB1000763	F-HEMBB1000763	1140	R-HEMBB1000763	6650
	HEMBB1000770	F-HEMBB1000770	1141	R-HEMBB1000770	6651
	HEMBB1000774	F-HEMBB1000774	1142		
30	HEMBB1000781	F-HEMBB1000781	1143	R-HEMBB1000781	6652
	HEMBB1000789	F-HEMBB1000789	1144	R-HEMBB1000789	6653
	HEMBB1000790	F-HEMBB1000790	1145	R-HEMBB1000790	6654
	HEMBB1000794	F-HEMBB1000794	1146	R-HEMBB1000794	6655
35	HEMBB1000807	F-HEMBB1000807	1147	R-HEMBB1000807	6656
	HEMBB1000810	F-HEMBB1000810	1148	R-HEMBB1000810	6657
	HEMBB1000821	F-HEMBB1000821	1149	R-HEMBB1000821	6658
	HEMBB1000822	F-HEMBB1000822	1150	R-HEMBB1000822	6659
40	HEMBB1000826	F-HEMBB1000826	1151	R-HEMBB1000826	6660
	HEMBB1000827	F-HEMBB1000827	1152	R-HEMBB1000827	6661
	HEMBB1000831	F-HEMBB1000831	1153	R-HEMBB1000831	6662
	HEMBB1000835	F-HEMBB1000835	1154	R-HEMBB1000835	6663
45	HEMBB1000840	F-HEMBB1000840	1155	R-HEMBB1000840	6664
	HEMBB1000848	F-HEMBB1000848	1156	R-HEMBB1000848	6665
	HEMBB1000852	F-HEMBB1000852	1157	R-HEMBB1000852	6666
	HEMBB1000870	F-HEMBB1000870	1158	R-HEMBB1000870	6667
50	HEMBB1000876	F-HEMBB1000876	1159	R-HEMBB1000876	6668
	HEMBB1000883	F-HEMBB1000883	1160	R-HEMBB1000883	6669
	HEMBB1000887	F-HEMBB1000887	1161	R-HEMBB1000887	6670
	HEMBB1000888	F-HEMBB1000888	1162	R-HEMBB1000888	6671
55	HEMBB1000890	F-HEMBB1000890	1163	R-HEMBB1000890	6672
	HEMBB1000893	F-HEMBB1000893	1164	R-HEMBB1000893	6673
	HEMBB1000908	F-HEMBB1000908	1165	R-HEMBB1000908	6674

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	HEMBB1000910	F-HEMBB1000910	1166	R-HEMBB1000910	6675
	HEMBB1000913	F-HEMBB1000913	1167	R-HEMBB1000913	6676
	HEMBB1000915	F-HEMBB1000915	1168	R-HEMBB1000915	6677
5	HEMBB1000917	F-HEMBB1000917	1169	R-HEMBB1000917	6678
	HEMBB1000927	F-HEMBB1000927	1170	R-HEMBB1000927	6679
	HEMBB1000947	F-HEMBB1000947	1171	R-HEMBB1000947	6680
	HEMBB1000959	F-HEMBB1000959	1172	R-HEMBB1000959	6681
10	HEMBB1000973	F-HEMBB1000973	1173	R-HEMBB1000973	6682
	HEMBB1000975	F-HEMBB1000975	1174	R-HEMBB1000975	6683
	HEMBB1000981	F-HEMBB1000981	1175	R-HEMBB1000981	6684
	HEMBB1000985	F-HEMBB1000985	1176	R-HEMBB1000985	6685
15	HEMBB1000991	F-HEMBB1000991	1177	R-HEMBB1000991	6686
	HEMBB1000996	F-HEMBB1000996	1178	R-HEMBB1000996	6687
	HEMBB1001004	F-HEMBB1001004	1179	R-HEMBB1001004	6688
	HEMBB1001008	F-HEMBB1001008	1180	R-HEMBB1001008	6689
20	HEMBB1001011	F-HEMBB1001011	1181	R-HEMBB1001011	6690
	HEMBB1001014	F-HEMBB1001014	1182	R-HEMBB1001014	6691
	HEMBB1001020	F-HEMBB1001020	1183	R-HEMBB1001020	6692
	HEMBB1001024	F-HEMBB1001024	1184	R-HEMBB1001024	6693
25	HEMBB1001037	F-HEMBB1001037	1185	R-HEMBB1001037	6694
	HEMBB1001047	F-HEMBB1001047	1186	R-HEMBB1001047	6695
	HEMBB1001051	F-HEMBB1001051	1187	R-HEMBB1001051	6696
	HEMBB1001056	F-HEMBB1001056	1188	R-HEMBB1001056	6697
30	HEMBB1001058	F-HEMBB1001058	1189	R-HEMBB1001058	6698
	HEMBB1001060	F-HEMBB1001060	1190	R-HEMBB1001060	6699
	HEMBB1001063	F-HEMBB1001063	1191	R-HEMBB1001063	6700
	HEMBB1001068	F-HEMBB1001068	1192	R-HEMBB1001068	6701
35	HEMBB1001096	F-HEMBB1001096	1193	R-HEMBB1001096	6702
	HEMBB1001102	F-HEMBB1001102	1194	R-HEMBB1001102	6703
	HEMBB1001105	F-HEMBB1001105	1195	R-HEMBB1001105	6704
	HEMBB1001112	F-HEMBB1001112	1196		
40	HEMBB1001114	F-HEMBB1001114	1197	R-HEMBB1001114	6705
	HEMBB1001117	F-HEMBB1001117	1198	R-HEMBB1001117	6706
	HEMBB1001119	F-HEMBB1001119	1199	R-HEMBB1001119	6707
	HEMBB1001126	F-HEMBB1001126	1200	R-HEMBB1001126	6708
45	HEMBB1001133	F-HEMBB1001133	1201	R-HEMBB1001133	6709
	HEMBB1001137	F-HEMBB1001137	1202	R-HEMBB1001137	6710
	HEMBB1001142	F-HEMBB1001142	1203	R-HEMBB1001142	6711
	HEMBB1001151	F-HEMBB1001151	1204	R-HEMBB1001151	6712
50	HEMBB1001153	F-HEMBB1001153	1205	R-HEMBB1001153	6713
	HEMBB1001169	F-HEMBB1001169	1206	R-HEMBB1001169	6714
	HEMBB1001175	F-HEMBB1001175	1207	R-annnnnnnnnnnn	6715
	HEMBB1001177	F-HEMBB1001177	1208	R-HEMBB1001177	6716
	HEMBB1001182	F-HEMBB1001182	1209	R-HEMBB1001182	6717
55	HEMBB1001199	F-HEMBB1001199	1210	R-HEMBB1001199	6718
	HEMBB1001208	F-HEMBB1001208	1211	R-HEMBB1001208	6719

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	HEMBB1001209	F-HEMBB1001209	1212	R-HEMBB1001209	6720
	HEMBB1001210	F-HEMBB1001210	1213	R-HEMBB1001210	6721
	HEMBB1001218	F-HEMBB1001218	1214	R-HEMBB1001218	6722
5	HEMBB1001221	F-HEMBB1001221	1215	R-HEMBB1001221	6723
	HEMBB1001234	F-HEMBB1001234	1216	R-HEMBB1001234	6724
	HEMBB1001242	F-HEMBB1001242	1217	R-HEMBB1001242	6725
	HEMBB1001249	F-HEMBB1001249	1218	R-HEMBB1001249	6726
10	HEMBB1001253	F-HEMBB1001253	1219	R-HEMBB1001253	6727
	HEMBB1001254	F-HEMBB1001254	1220	R-HEMBB1001254	6728
	HEMBB1001267	F-HEMBB1001267	1221	R-HEMBB1001267	6729
	HEMBB1001271	F-HEMBB1001271	1222	R-HEMBB1001271	6730
15	HEMBB1001282	F-HEMBB1001282	1223	R-HEMBB1001282	6731
	HEMBB1001288	F-HEMBB1001288	1224	R-HEMBB1001288	6732
	HEMBB1001289	F-HEMBB1001289	1225	R-HEMBB1001289	6733
	HEMBB1001294	F-HEMBB1001294	1226	R-HEMBB1001294	6734
20	HEMBB1001302	F-HEMBB1001302	1227	R-HEMBB1001302	6735
	HEMBB1001304	F-HEMBB1001304	1228	R-HEMBB1001304	6736
	HEMBB1001314	F-HEMBB1001314	1229	R-HEMBB1001314	6737
	HEMBB1001315	F-HEMBB1001315	1230	R-HEMBB1001315	6738
25	HEMBB1001317	F-HEMBB1001317	1231	R-HEMBB1001317	6739
	HEMBB1001326	F-HEMBB1001326	1232	R-HEMBB1001326	6740
	HEMBB1001331	F-HEMBB1001331	1233	R-HEMBB1001331	6741
	HEMBB1001335	F-HEMBB1001335	1234	R-HEMBB1001335	6742
30	HEMBB1001337	F-HEMBB1001337	1235	R-HEMBB1001337	6743
	HEMBB1001339	F-HEMBB1001339	1236	R-HEMBB1001339	6744
	HEMBB1001346	F-HEMBB1001346	1237	R-HEMBB1001346	6745
	HEMBB1001348	F-HEMBB1001348	1238	R-HEMBB1001348	6746
35	HEMBB1001356	F-HEMBB1001356	1239	R-HEMBB1001356	6747
	HEMBB1001364	F-HEMBB1001364	1240	R-HEMBB1001364	6748
	HEMBB1001366	F-HEMBB1001366	1241	R-HEMBB1001366	6749
	HEMBB1001367	F-HEMBB1001367	1242	R-HEMBB1001367	6750
40	HEMBB1001369	F-HEMBB1001369	1243	R-HEMBB1001369	6751
	HEMBB1001380	F-HEMBB1001380	1244	R-HEMBB1001380	6752
	HEMBB1001384	F-HEMBB1001384	1245	R-HEMBB1001384	6753
	HEMBB1001387	F-HEMBB1001387	1246	R-HEMBB1001387	6754
	HEMBB1001394	F-HEMBB1001394	1247	R-HEMBB1001394	6755
45	HEMBB1001410	F-HEMBB1001410	1248	R-HEMBB1001410	6756
	HEMBB1001424	F-HEMBB1001424	1249	R-HEMBB1001424	6757
	HEMBB1001426	F-HEMBB1001426	1250	R-HEMBB1001426	6758
	HEMBB1001429	F-HEMBB1001429	1251	R-HEMBB1001429	6759
50	HEMBB1001436	F-HEMBB1001436	1252	R-HEMBB1001436	6760
	HEMBB1001443	F-HEMBB1001443	1253	R-HEMBB1001443	6761
	HEMBB1001449	F-HEMBB1001449	1254	R-HEMBB1001449	6762
	HEMBB1001454	F-HEMBB1001454	1255	R-HEMBB1001454	6763
55	HEMBB1001458	F-HEMBB1001458	1256	R-HEMBB1001458	6764
	HEMBB1001463	F-HEMBB1001463	1257	R-HEMBB1001463	6765

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	HEMBB1001464	F-HEMBB1001464	1258	R-HEMBB1001464	6766
	HEMBB1001482	F-HEMBB1001482	1259	R-HEMBB1001482	6767
	HEMBB1001500	F-HEMBB1001500	1260	R-HEMBB1001500	6768
5	HEMBB1001521	F-HEMBB1001521	1261	R-HEMBB1001521	6769
	HEMBB1001527	F-HEMBB1001527	1262	R-HEMBB1001527	6770
	HEMBB1001531	F-HEMBB1001531	1263	R-HEMBB1001531	6771
	HEMBB1001535	F-HEMBB1001535	1264	R-HEMBB1001535	6772
10	HEMBB1001536	F-HEMBB1001536	1265	R-HEMBB1001536	6773
	HEMBB1001537	F-HEMBB1001537	1266	R-HEMBB1001537	6774
	HEMBB1001555	F-HEMBB1001555	1267	R-HEMBB1001555	6775
	HEMBB1001562	F-HEMBB1001562	1268	R-HEMBB1001562	6776
15	HEMBB1001564	F-HEMBB1001564	1269	R-HEMBB1001564	6777
	HEMBB1001565	F-HEMBB1001565	1270	R-HEMBB1001565	6778
	HEMBB1001585	F-HEMBB1001585	1271	R-HEMBB1001585	6779
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20	HEMBB1001588	F-HEMBB1001588	1273	R-HEMBB1001588	6781
	HEMBB1001603	F-HEMBB1001603	1274	R-HEMBB1001603	6782
	HEMBB1001618	F-HEMBB1001618	1275	R-HEMBB1001618	6783
	HEMBB1001619	F-HEMBB1001619	1276	R-HEMBB1001619	6784
25	HEMBB1001630	F-HEMBB1001630	1277	R-HEMBB1001630	6785
	HEMBB1001635	F-HEMBB1001635	1278	R-HEMBB1001635	6786
	HEMBB1001637	F-HEMBB1001637	1279	R-HEMBB1001637	6787
	HEMBB1001641	F-HEMBB1001641	1280	R-HEMBB1001641	6788
30	HEMBB1001653	F-HEMBB1001653	1281	R-HEMBB1001653	6789
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	HEMBB1001668	F-HEMBB1001668	1283	R-HEMBB1001668	6791
	HEMBB1001673	F-HEMBB1001673	1284	R-HEMBB1001673	6792
35	HEMBB1001684	F-HEMBB1001684	1285	R-HEMBB1001684	6793
	HEMBB1001685	F-HEMBB1001685	1286	R-HEMBB1001685	6794
	HEMBB1001695	F-HEMBB1001695	1287	R-HEMBB1001695	6795
	HEMBB1001704	F-HEMBB1001704	1288	R-HEMBB1001704	6796
	HEMBB1001706	F-HEMBB1001706	1289	R-HEMBB1001706	6797
40	HEMBB1001707	F-HEMBB1001707	1290	R-HEMBB1001707	6798
	HEMBB1001717	F-HEMBB1001717	1291	R-HEMBB1001717	6799
	HEMBB1001735	F-HEMBB1001735	1292	R-HEMBB1001735	6800
	HEMBB1001736	F-HEMBB1001736	1293	R-HEMBB1001736	6801
45	HEMBB1001747	F-HEMBB1001747	1294	R-HEMBB1001747	6802
	HEMBB1001749	F-HEMBB1001749	1295	R-HEMBB1001749	6803
	HEMBB1001753	F-HEMBB1001753	1296	R-HEMBB1001753	6804
	HEMBB1001756	F-HEMBB1001756	1297	R-HEMBB1001756	6805
50	HEMBB1001760	F-HEMBB1001760	1298	R-HEMBB1001760	6806
	HEMBB1001762	F-HEMBB1001762	1299	R-HEMBB1001762	6807
	HEMBB1001785	F-HEMBB1001785	1300	R-HEMBB1001785	6808
	HEMBB1001797	F-HEMBB1001797	1301	R-HEMBB1001797	6809
55	HEMBB1001802	F-HEMBB1001802	1302	R-HEMBB1001802	6810
	HEMBB1001812	F-HEMBB1001812	1303	R-HEMBB1001812	6811

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	HEMBB1001816	F-HEMBB1001816	1304	R-HEMBB1001816	6812
	HEMBB1001831	F-HEMBB1001831	1305	R-HEMBB1001831	6813
	HEMBB1001834	F-HEMBB1001834	1306		
5	HEMBB1001836	F-HEMBB1001836	1307	R-HEMBB1001836	6814
	HEMBB1001839	F-HEMBB1001839	1308	R-HEMBB1001839	6815
	HEMBB1001850	F-HEMBB1001850	1309	R-HEMBB1001850	6816
	HEMBB1001863	F-HEMBB1001863	1310	R-HEMBB1001863	6817
10	HEMBB1001867	F-HEMBB1001867	1311	R-HEMBB1001867	6818
	HEMBB1001868	F-HEMBB1001868	1312	R-HEMBB1001868	6819
	HEMBB1001869	F-HEMBB1001869	1313	R-HEMBB1001869	6820
	HEMBB1001872	F-HEMBB1001872	1314	R-HEMBB1001872	6821
15	HEMBB1001874	F-HEMBB1001874	1315	R-HEMBB1001874	6822
	HEMBB1001875	F-HEMBB1001875	1316	R-HEMBB1001875	6823
	HEMBB1001880	F-HEMBB1001880	1317	R-HEMBB1001880	6824
	HEMBB1001899	F-HEMBB1001899	1318	R-HEMBB1001899	6825
20	HEMBB1001905	F-HEMBB1001905	1319	R-HEMBB1001905	6826
	HEMBB1001906	F-HEMBB1001906	1320	R-HEMBB1001906	6827
	HEMBB1001908	F-HEMBB1001908	1321	R-HEMBB1001908	6828
	HEMBB1001910	F-HEMBB1001910	1322	R-HEMBB1001910	6829
25	HEMBB1001911	F-HEMBB1001911	1323	R-HEMBB1001911	6830
	HEMBB1001915	F-HEMBB1001915	1324	R-HEMBB1001915	6831
	HEMBB1001921	F-HEMBB1001921	1325	R-HEMBB1001921	6832
	HEMBB1001922	F-HEMBB1001922	1326	R-HEMBB1001922	6833
30	HEMBB1001925	F-HEMBB1001925	1327	R-HEMBB1001925	6834
	HEMBB1001930	F-HEMBB1001930	1328	R-HEMBB1001930	6835
	HEMBB1001944	F-HEMBB1001944	1329	R-HEMBB1001944	6836
	HEMBB1001945	F-HEMBB1001945	1330	R-HEMBB1001945	6837
35	HEMBB1001947	F-HEMBB1001947	1331	R-HEMBB1001947	6838
	HEMBB1001950	F-HEMBB1001950	1332	R-HEMBB1001950	6839
	HEMBB1001952	F-HEMBB1001952	1333	R-HEMBB1001952	6840
	HEMBB1001953	F-HEMBB1001953	1334	R-HEMBB1001953	6841
	HEMBB1001957	F-HEMBB1001957	1335	R-HEMBB1001957	6842
40	HEMBB1001962	F-HEMBB1001962	1336	R-HEMBB1001962	6843
	HEMBB1001967	F-HEMBB1001967	1337	R-HEMBB1001967	6844
	HEMBB1001973	F-HEMBB1001973	1338	R-HEMBB1001973	6845
	HEMBB1001983	F-HEMBB1001983	1339	R-HEMBB1001983	6846
45	HEMBB1001988	F-HEMBB1001988	1340	R-HEMBB1001988	6847
	HEMBB1001990	F-HEMBB1001990	1341	R-HEMBB1001990	6848
	HEMBB1001996	F-HEMBB1001996	1342	R-HEMBB1001996	6849
	HEMBB1001997	F-HEMBB1001997	1343	R-HEMBB1001997	6850
50	HEMBB1002002	F-HEMBB1002002	1344	R-HEMBB1002002	6851
	HEMBB1002005	F-HEMBB1002005	1345	R-HEMBB1002005	6852
	HEMBB1002009	F-HEMBB1002009	1346	R-HEMBB1002009	6853
	HEMBB1002015	F-HEMBB1002015	1347	R-HEMBB1002015	6854
55	HEMBB1002042	F-HEMBB1002042	1348	R-HEMBB1002042	6855
	HEMBB1002043	F-HEMBB1002043	1349	R-HEMBB1002043	6856

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	HEMBB1002044	F-HEMBB1002044	1350	R-HEMBB1002044	6857
	HEMBB1002045	F-HEMBB1002045	1351	R-HEMBB1002045	6858
	HEMBB1002049	F-HEMBB1002049	1352	R-HEMBB1002049	6859
5	HEMBB1002050	F-HEMBB1002050	1353	R-HEMBB1002050	6860
	HEMBB1002068	F-HEMBB1002068	1354	R-HEMBB1002068	6861
	HEMBB1002069	F-HEMBB1002069	1355	R-HEMBB1002069	6862
	HEMBB1002092	F-HEMBB1002092	1356	R-HEMBB1002092	6863
10	HEMBB1002094	F-HEMBB1002094	1357	R-HEMBB1002094	6864
	HEMBB1002115	F-HEMBB1002115	1358	R-HEMBB1002115	6865
	HEMBB1002134	F-HEMBB1002134	1359		
	HEMBB1002139	F-HEMBB1002139	1360	R-HEMBB1002139	6866
15	HEMBB1002142	F-HEMBB1002142	1361	R-HEMBB1002142	6867
	HEMBB1002152	F-HEMBB1002152	1362	R-HEMBB1002152	6868
	HEMBB1002189	F-HEMBB1002189	1363	R-HEMBB1002189	6869
	HEMBB1002190	F-HEMBB1002190	1364	R-HEMBB1002190	6870
20	HEMBB1002193	F-HEMBB1002193	1365	R-HEMBB1002193	6871
	HEMBB1002217	F-HEMBB1002217	1366	R-HEMBB1002217	6872
	HEMBB1002218	F-HEMBB1002218	1367	R-HEMBB1002218	6873
	HEMBB1002232	F-HEMBB1002232	1368	R-HEMBB1002232	6874
25	HEMBB1002247	F-HEMBB1002247	1369	R-HEMBB1002247	6875
	HEMBB1002249	F-HEMBB1002249	1370	R-HEMBB1002249	6876
	HEMBB1002254	F-HEMBB1002254	1371	R-HEMBB1002254	6877
	HEMBB1002255	F-HEMBB1002255	1372	R-HEMBB1002255	6878
30	HEMBB1002266	F-HEMBB1002266	1373	R-HEMBB1002266	6879
	HEMBB1002280	F-HEMBB1002280	1374	R-HEMBB1002280	6880
	HEMBB1002300	F-HEMBB1002300	1375	R-HEMBB1002300	6881
	HEMBB1002306	F-HEMBB1002306	1376	R-HEMBB1002306	6882
35	HEMBB1002327	F-HEMBB1002327	1377	R-HEMBB1002327	6883
	HEMBB1002329	F-HEMBB1002329	1378	R-HEMBB1002329	6884
	HEMBB1002340	F-HEMBB1002340	1379	R-HEMBB1002340	6885
	HEMBB1002342	F-HEMBB1002342	1380	R-HEMBB1002342	6886
40	HEMBB1002358	F-HEMBB1002358	1381	R-HEMBB1002358	6887
	HEMBB1002359	F-HEMBB1002359	1382	R-HEMBB1002359	6888
	HEMBB1002364	F-HEMBB1002364	1383	R-HEMBB1002364	6889
	HEMBB1002371	F-HEMBB1002371	1384	R-HEMBB1002371	6890
	HEMBB1002381	F-HEMBB1002381	1385	R-HEMBB1002381	6891
45	HEMBB1002383	F-HEMBB1002383	1386	R-HEMBB1002383	6892
	HEMBB1002387	F-HEMBB1002387	1387	R-HEMBB1002387	6893
	HEMBB1002409	F-HEMBB1002409	1388		
	HEMBB1002415	F-HEMBB1002415	1389	R-HEMBB1002415	6894
50	HEMBB1002425	F-HEMBB1002425	1390	R-HEMBB1002425	6895
	HEMBB1002442	F-HEMBB1002442	1391	R-HEMBB1002442	6896
	HEMBB1002453	F-HEMBB1002453	1392	R-HEMBB1002453	6897
	HEMBB1002457	F-HEMBB1002457	1393	R-HEMBB1002457	6898
55	HEMBB1002458	F-HEMBB1002458	1394	R-HEMBB1002458	6899
	HEMBB1002477	F-HEMBB1002477	1395	R-HEMBB1002477	6900

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	HEMBB1002489	F-HEMBB1002489	1396	R-HEMBB1002489	6901
	HEMBB1002492	F-HEMBB1002492	1397	R-HEMBB1002492	6902
	HEMBB1002495	F-HEMBB1002495	1398	R-HEMBB1002495	6903
5	HEMBB1002502	F-HEMBB1002502	1399	R-HEMBB1002502	6904
	HEMBB1002509	F-HEMBB1002509	1400	R-HEMBB1002509	6905
	HEMBB1002510	F-HEMBB1002510	1401	R-HEMBB1002510	6906
	HEMBB1002520	F-HEMBB1002520	1402	R-HEMBB1002520	6907
10	HEMBB1002522	F-HEMBB1002522	1403	R-HEMBB1002522	6908
	HEMBB1002531	F-HEMBB1002531	1404	R-HEMBB1002531	6909
	HEMBB1002534	F-HEMBB1002534	1405	R-HEMBB1002534	6910
	HEMBB1002545	F-HEMBB1002545	1406	R-HEMBB1002545	6911
15	HEMBB1002550	F-HEMBB1002550	1407	R-HEMBB1002550	6912
	HEMBB1002556	F-HEMBB1002556	1408	R-HEMBB1002556	6913
	HEMBB1002579	F-HEMBB1002579	1409	R-HEMBB1002579	6914
	HEMBB1002582	F-HEMBB1002582	1410	R-HEMBB1002582	6915
20	HEMBB1002590	F-HEMBB1002590	1411	R-HEMBB1002590	6916
	HEMBB1002596	F-HEMBB1002596	1412	R-HEMBB1002596	6917
	HEMBB1002600	F-HEMBB1002600	1413	R-HEMBB1002600	6918
	HEMBB1002601	F-HEMBB1002601	1414	R-HEMBB1002601	6919
25	HEMBB1002603	F-HEMBB1002603	1415	R-HEMBB1002603	6920
	HEMBB1002607	F-HEMBB1002607	1416	R-HEMBB1002607	6921
	HEMBB1002610	F-HEMBB1002610	1417	R-HEMBB1002610	6922
	HEMBB1002613	F-HEMBB1002613	1418	R-HEMBB1002613	6923
30	HEMBB1002614	F-HEMBB1002614	1419	R-HEMBB1002614	6924
	HEMBB1002617	F-HEMBB1002617	1420	R-HEMBB1002617	6925
	HEMBB1002623	F-HEMBB1002623	1421	R-HEMBB1002623	6926
	HEMBB1002635	F-HEMBB1002635	1422	R-HEMBB1002635	6927
35	HEMBB1002664	F-HEMBB1002664	1423	R-HEMBB1002664	6928
	HEMBB1002677	F-HEMBB1002677	1424	R-HEMBB1002677	6929
	HEMBB1002683	F-HEMBB1002683	1425	R-HEMBB1002683	6930
	HEMBB1002684	F-HEMBB1002684	1426	R-HEMBB1002684	6931
	HEMBB1002686	F-HEMBB1002686	1427	R-HEMBB1002686	6932
40	HEMBB1002692	F-HEMBB1002692	1428	R-HEMBB1002692	6933
	HEMBB1002697	F-HEMBB1002697	1429	R-HEMBB1002697	6934
	HEMBB1002699	F-HEMBB1002699	1430	R-HEMBB1002699	6935
	HEMBB1002702	F-HEMBB1002702	1431	R-HEMBB1002702	6936
45	HEMBB1002705	F-HEMBB1002705	1432	R-HEMBB1002705	6937
	HEMBB1002712	F-HEMBB1002712	1433	R-HEMBB1002712	6938
	MAMMA1000009	F-MAMMA1000009	1434	R-MAMMA1000009	6939
	MAMMA1000019	F-MAMMA1000019	1435	R-MAMMA1000019	6940
50	MAMMA1000020	F-MAMMA1000020	1436	R-MAMMA1000020	6941
	MAMMA1000025	F-MAMMA1000025	1437	R-MAMMA1000025	6942
	MAMMA1000043	F-MAMMA1000043	1438	R-MAMMA1000043	6943
	MAMMA1000045	F-MAMMA1000045	1439	R-MAMMA1000045	6944
55	MAMMA1000055	F-MAMMA1000055	1440	R-MAMMA1000055	6945
	MAMMA1000057	F-MAMMA1000057	1441	R-MAMMA1000057	6946

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	MAMMA1000069	F-MAMMA1000069	1442	R-MAMMA1000069	6947
	MAMMA1000084	F-MAMMA1000084	1443	R-MAMMA1000084	6948
	MAMMA1000085	F-MAMMA1000085	1444	R-MAMMA1000085	6949
5	MAMMA1000092	F-MAMMA1000092	1445	R-MAMMA1000092	6950
	MAMMA1000103	F-MAMMA1000103	1446	R-MAMMA1000103	6951
	MAMMA1000117	F-MAMMA1000117	1447	R-MAMMA1000117	6952
	MAMMA1000129	F-MAMMA1000129	1448	R-MAMMA1000129	6953
10	MAMMA1000133	F-MAMMA1000133	1449	R-MAMMA1000133	6954
	MAMMA1000134	F-MAMMA1000134	1450	R-MAMMA1000134	6955
	MAMMA1000139	F-MAMMA1000139	1451	R-MAMMA1000139	6956
	MAMMA1000143	F-MAMMA1000143	1452	R-MAMMA1000143	6957
15	MAMMA1000155	F-MAMMA1000155	1453	R-MAMMA1000155	6958
	MAMMA1000163	F-MAMMA1000163	1454	R-MAMMA1000163	6959
	MAMMA1000171	F-MAMMA1000171	1455	R-MAMMA1000171	6960
	MAMMA1000173	F-MAMMA1000173	1456	R-MAMMA1000173	6961
20	MAMMA1000175	F-MAMMA1000175	1457	R-MAMMA1000175	6962
	MAMMA1000183	F-MAMMA1000183	1458	R-MAMMA1000183	6963
	MAMMA1000198	F-MAMMA1000198	1459	R-MAMMA1000198	6964
	MAMMA1000221	F-MAMMA1000221	1460	R-MAMMA1000221	6965
25	MAMMA1000227	F-MAMMA1000227	1461	R-MAMMA1000227	6966
	MAMMA1000241	F-MAMMA1000241	1462	R-MAMMA1000241	6967
	MAMMA1000251	F-MAMMA1000251	1463	R-MAMMA1000251	6968
	MAMMA1000254	F-MAMMA1000254	1464	R-MAMMA1000254	6969
30	MAMMA1000257	F-MAMMA1000257	1465	R-MAMMA1000257	6970
	MAMMA1000264	F-MAMMA1000264	1466	R-MAMMA1000264	6971
	MAMMA1000266	F-MAMMA1000266	1467	R-MAMMA1000266	6972
	MAMMA1000270	F-MAMMA1000270	1468	R-MAMMA1000270	6973
	MAMMA1000277	F-MAMMA1000277	1469	R-MAMMA1000277	6974
35	MAMMA1000278	F-MAMMA1000278	1470	R-MAMMA1000278	6975
	MAMMA1000279	F-MAMMA1000279	1471	R-MAMMA1000279	6976
	MAMMA1000284	F-MAMMA1000284	1472	R-MAMMA1000284	6977
	MAMMA1000287	F-MAMMA1000287	1473	R-MAMMA1000287	6978
40	MAMMA1000302	F-MAMMA1000302	1474	R-MAMMA1000302	6979
	MAMMA1000307	F-MAMMA1000307	1475	R-MAMMA1000307	6980
	MAMMA1000309	F-MAMMA1000309	1476	R-MAMMA1000309	6981
	MAMMA1000312	F-MAMMA1000312	1477	R-MAMMA1000312	6982
45	MAMMA1000313	F-MAMMA1000313	1478	R-MAMMA1000313	6983
	MAMMA1000331	F-MAMMA1000331	1479	R-MAMMA1000331	6984
	MAMMA1000339	F-MAMMA1000339	1480	R-MAMMA1000339	6985
	MAMMA1000340	F-MAMMA1000340	1481	R-MAMMA1000340	6986
50	MAMMA1000348	F-MAMMA1000348	1482	R-MAMMA1000348	6987
	MAMMA1000356	F-MAMMA1000356	1483	R-MAMMA1000356	6988
	MAMMA1000360	F-MAMMA1000360	1484	R-MAMMA1000360	6989
	MAMMA1000361	F-MAMMA1000361	1485	R-MAMMA1000361	6990
55	MAMMA1000372	F-MAMMA1000372	1486	R-MAMMA1000372	6991
	MAMMA1000385	F-MAMMA1000385	1487	R-MAMMA1000385	6992

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	MAMMA1000388	F-MAMMA1000388	1488	R-MAMMA1000388	6993
	MAMMA1000395	F-MAMMA1000395	1489	R-MAMMA1000395	6994
	MAMMA1000402	F-MAMMA1000402	1490	R-MAMMA1000402	6995
5	MAMMA1000410	F-MAMMA1000410	1491	R-MAMMA1000410	6996
	MAMMA1000413	F-MAMMA1000413	1492	R-MAMMA1000413	6997
	MAMMA1000414	F-MAMMA1000414	1493	R-MAMMA1000414	6998
	MAMMA1000416	F-MAMMA1000416	1494	R-MAMMA1000416	6999
10	MAMMA1000421	F-MAMMA1000421	1495	R-MAMMA1000421	7000
	MAMMA1000422	F-MAMMA1000422	1496	R-MAMMA1000422	7001
	MAMMA1000423	F-MAMMA1000423	1497	R-MAMMA1000423	7002
	MAMMA1000424	F-MAMMA1000424	1498	R-MAMMA1000424	7003
15	MAMMA1000429	F-MAMMA1000429	1499	R-MAMMA1000429	7004
	MAMMA1000431	F-MAMMA1000431	1500	R-MAMMA1000431	7005
	MAMMA1000444	F-MAMMA1000444	1501	R-MAMMA1000444	7006
	MAMMA1000446	F-MAMMA1000446	1502	R-MAMMA1000446	7007
20	MAMMA1000458	F-MAMMA1000458	1503	R-MAMMA1000458	7008
	MAMMA1000468	F-MAMMA1000468	1504	R-MAMMA1000468	7009
	MAMMA1000472	F-MAMMA1000472	1505	R-MAMMA1000472	7010
	MAMMA1000478	F-MAMMA1000478	1506	R-MAMMA1000478	7011
25	MAMMA1000483	F-MAMMA1000483	1507	R-MAMMA1000483	7012
	MAMMA1000490	F-MAMMA1000490	1508	R-MAMMA1000490	7013
	MAMMA1000500	F-MAMMA1000500	1509	R-MAMMA1000500	7014
	MAMMA1000501	F-MAMMA1000501	1510	R-MAMMA1000501	7015
30	MAMMA1000516	F-MAMMA1000516	1511	R-MAMMA1000516	7016
	MAMMA1000522	F-MAMMA1000522	1512	R-MAMMA1000522	7017
	MAMMA1000524	F-MAMMA1000524	1513		
	MAMMA1000559	F-MAMMA1000559	1514	R-MAMMA1000559	7018
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	MAMMA1000567	F-MAMMA1000567	1516	R-MAMMA1000567	7020
	MAMMA1000576	F-MAMMA1000576	1517	R-MAMMA1000576	7021
	MAMMA1000583	F-MAMMA1000583	1518	R-MAMMA1000583	7022
	MAMMA1000585	F-MAMMA1000585	1519	R-MAMMA1000585	7023
40	MAMMA1000594	F-MAMMA1000594	1520	R-MAMMA1000594	7024
	MAMMA1000597	F-MAMMA1000597	1521	R-MAMMA1000597	7025
	MAMMA1000605	F-MAMMA1000605	1522	R-MAMMA1000605	7026
	MAMMA1000612	F-MAMMA1000612	1523	R-MAMMA1000612	7027
45	MAMMA1000616	F-MAMMA1000616	1524	R-MAMMA1000616	7028
	MAMMA1000621	F-MAMMA1000621	1525	R-MAMMA1000621	7029
	MAMMA1000623	F-MAMMA1000623	1526	R-MAMMA1000623	7030
	MAMMA1000625	F-MAMMA1000625	1527	R-MAMMA1000625	7031
50	MAMMA1000643	F-MAMMA1000643	1528	R-MAMMA1000643	7032
	MAMMA1000664	F-MAMMA1000664	1529	R-MAMMA1000664	7033
	MAMMA1000669	F-MAMMA1000669	1530	R-MAMMA1000669	7034
	MAMMA1000670	F-MAMMA1000670	1531	R-MAMMA1000670	7035
55	MAMMA1000672	F-MAMMA1000672	1532	R-MAMMA1000672	7036
	MAMMA1000684	F-MAMMA1000684	1533	R-MAMMA1000684	7037

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	MAMMA1000696	F-MAMMA1000696	1534	R-MAMMA1000696	7038
	MAMMA1000707	F-MAMMA1000707	1535	R-MAMMA1000707	7039
	MAMMA1000713	F-MAMMA1000713	1536	R-MAMMA1000713	7040
5	MAMMA1000714	F-MAMMA1000714	1537	R-MAMMA1000714	7041
	MAMMA1000718	F-MAMMA1000718	1538	R-MAMMA1000718	7042
	MAMMA1000720	F-MAMMA1000720	1539	R-MAMMA1000720	7043
	MAMMA1000723	F-MAMMA1000723	1540	R-MAMMA1000723	7044
10	MAMMA1000731	F-MAMMA1000731	1541	R-MAMMA1000731	7045
	MAMMA1000732	F-MAMMA1000732	1542	R-MAMMA1000732	7046
	MAMMA1000733	F-MAMMA1000733	1543	R-MAMMA1000733	7047
	MAMMA1000734	F-MAMMA1000734	1544	R-MAMMA1000734	7048
15	MAMMA1000738	F-MAMMA1000738	1545	R-MAMMA1000738	7049
	MAMMA1000744	F-MAMMA1000744	1546	R-MAMMA1000744	7050
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	MAMMA1000761	F-MAMMA1000761	1550	R-MAMMA1000761	7054
	MAMMA1000775	F-MAMMA1000775	1551	R-MAMMA1000775	7055
	MAMMA1000776	F-MAMMA1000776	1552	R-MAMMA1000776	7056
25	MAMMA1000778	F-MAMMA1000778	1553	R-MAMMA1000778	7057
	MAMMA1000782	F-MAMMA1000782	1554	R-MAMMA1000782	7058
	MAMMA1000798	F-MAMMA1000798	1555	R-MAMMA1000798	7059
	MAMMA1000802	F-MAMMA1000802	1556	R-MAMMA1000802	7060
30	MAMMA1000824	F-MAMMA1000824	1557		
	MAMMA1000831	F-MAMMA1000831	1558	R-MAMMA1000831	7061
	MAMMA1000839	F-MAMMA1000839	1559	R-MAMMA1000839	7062
	MAMMA1000841	F-MAMMA1000841	1560	R-MAMMA1000841	7063
35	MAMMA1000842	F-MAMMA1000842	1561	R-MAMMA1000842	7064
	MAMMA1000843	F-MAMMA1000843	1562	R-MAMMA1000843	7065
	MAMMA1000845	F-MAMMA1000845	1563	R-MAMMA1000845	7066
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	MAMMA1000855	F-MAMMA1000855	1565	R-MAMMA1000855	7068
40	MAMMA1000856	F-MAMMA1000856	1566	R-MAMMA1000856	7069
	MAMMA1000859	F-MAMMA1000859	1567		
	MAMMA1000862	F-MAMMA1000862	1568	R-MAMMA1000862	7070
	MAMMA1000863	F-MAMMA1000863	1569	R-MAMMA1000863	7071
45	MAMMA1000865	F-MAMMA1000865	1570	R-MAMMA1000865	7072
	MAMMA1000867	F-MAMMA1000867	1571	R-MAMMA1000867	7073
	MAMMA1000875	F-MAMMA1000875	1572	R-MAMMA1000875	7074
	MAMMA1000876	F-MAMMA1000876	1573	R-MAMMA1000876	7075
50	MAMMA1000877	F-MAMMA1000877	1574	R-MAMMA1000877	7076
	MAMMA1000880	F-MAMMA1000880	1575	R-MAMMA1000880	7077
	MAMMA1000883	F-MAMMA1000883	1576	R-MAMMA1000883	7078
	MAMMA1000897	F-MAMMA1000897	1577	R-MAMMA1000897	7079
55	MAMMA1000905	F-MAMMA1000905	1578	R-MAMMA1000905	7080
	MAMMA1000906	F-MAMMA1000906	1579	R-MAMMA1000906	7081

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	MAMMA1000940	F-MAMMA1000940	1584	R-MAMMA1000940	7086
	MAMMA1000941	F-MAMMA1000941	1585	R-MAMMA1000941	7087
	MAMMA1000942	F-MAMMA1000942	1586	R-MAMMA1000942	7088
10	MAMMA1000943	F-MAMMA1000943	1587	R-MAMMA1000943	7089
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	MAMMA1000957	F-MAMMA1000957	1589	R-MAMMA1000957	7091
	MAMMA1000962	F-MAMMA1000962	1590	R-MAMMA1000962	7092
15	MAMMA1000968	F-MAMMA1000968	1591	R-MAMMA1000968	7093
	MAMMA1000975	F-MAMMA1000975	1592	R-MAMMA1000975	7094
	MAMMA1000979	F-MAMMA1000979	1593	R-MAMMA1000979	7095
	MAMMA1000987	F-MAMMA1000987	1594	R-MAMMA1000987	7096
20	MAMMA1000998	F-MAMMA1000998	1595	R-MAMMA1000998	7097
	MAMMA1001003	F-MAMMA1001003	1596	R-MAMMA1001003	7098
	MAMMA1001008	F-MAMMA1001008	1597	R-MAMMA1001008	7099
	MAMMA1001021	F-MAMMA1001021	1598	R-MAMMA1001021	7100
25	MAMMA1001024	F-MAMMA1001024	1599	R-MAMMA1001024	7101
	MAMMA1001030	F-MAMMA1001030	1600	R-MAMMA1001030	7102
	MAMMA1001035	F-MAMMA1001035	1601	R-MAMMA1001035	7103
	MAMMA1001038	F-MAMMA1001038	1602	R-MAMMA1001038	7104
30	MAMMA1001041	F-MAMMA1001041	1603	R-nnnnnnnnnnnnn	7105
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	MAMMA1001059	F-MAMMA1001059	1605	R-MAMMA1001059	7107
	MAMMA1001067	F-MAMMA1001067	1606	R-MAMMA1001067	7108
35	MAMMA1001073	F-MAMMA1001073	1607	R-MAMMA1001073	7109
	MAMMA1001074	F-MAMMA1001074	1608	R-MAMMA1001074	7110
	MAMMA1001075	F-MAMMA1001075	1609	R-MAMMA1001075	7111
	MAMMA1001078	F-MAMMA1001078	1610	R-MAMMA1001078	7112
	MAMMA1001080	F-MAMMA1001080	1611		
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	MAMMA1001091	F-MAMMA1001091	1613	R-MAMMA1001091	7114
	MAMMA1001092	F-MAMMA1001092	1614	R-MAMMA1001092	7115
	MAMMA1001105	F-MAMMA1001105	1615	R-MAMMA1001105	7116
45	MAMMA1001110	F-MAMMA1001110	1616	R-MAMMA1001110	7117
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	MAMMA1001133	F-MAMMA1001133	1618	R-MAMMA1001133	7119
	MAMMA1001139	F-MAMMA1001139	1619	R-MAMMA1001139	7120
50	MAMMA1001143	F-MAMMA1001143	1620	R-MAMMA1001143	7121
	MAMMA1001145	F-MAMMA1001145	1621	R-MAMMA1001145	7122
	MAMMA1001154	F-MAMMA1001154	1622	R-MAMMA1001154	7123
	MAMMA1001161	F-MAMMA1001161	1623	R-MAMMA1001161	7124
55	MAMMA1001162	F-MAMMA1001162	1624	R-MAMMA1001162	7125
	MAMMA1001181	F-MAMMA1001181	1625	R-MAMMA1001181	7126

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	MAMMA1001186	F-MAMMA1001186	1626	R-MAMMA1001186	7127
	MAMMA1001191	F-MAMMA1001191	1627	R-MAMMA1001191	7128
	MAMMA1001198	F-MAMMA1001198	1628	R-MAMMA1001198	7129
5	MAMMA1001202	F-MAMMA1001202	1629	R-MAMMA1001202	7130
	MAMMA1001203	F-MAMMA1001203	1630	R-MAMMA1001203	7131
	MAMMA1001206	F-MAMMA1001206	1631	R-MAMMA1001206	7132
	MAMMA1001215	F-MAMMA1001215	1632	R-MAMMA1001215	7133
10	MAMMA1001220	F-MAMMA1001220	1633	R-MAMMA1001220	7134
	MAMMA1001222	F-MAMMA1001222	1634	R-MAMMA1001222	7135
	MAMMA1001243	F-MAMMA1001243	1635	R-MAMMA1001243	7136
	MAMMA1001244	F-MAMMA1001244	1636	R-MAMMA1001244	7137
15	MAMMA1001249	F-MAMMA1001249	1637	R-MAMMA1001249	7138
	MAMMA1001256	F-MAMMA1001256	1638	R-MAMMA1001256	7139
	MAMMA1001259	F-MAMMA1001259	1639	R-MAMMA1001259	7140
	MAMMA1001260	F-MAMMA1001260	1640	R-MAMMA1001260	7141
20	MAMMA1001268	F-MAMMA1001268	1641	R-MAMMA1001268	7142
	MAMMA1001271	F-MAMMA1001271	1642	R-MAMMA1001271	7143
	MAMMA1001274	F-MAMMA1001274	1643	R-MAMMA1001274	7144
	MAMMA1001280	F-MAMMA1001280	1644	R-MAMMA1001280	7145
25	MAMMA1001292	F-MAMMA1001292	1645	R-MAMMA1001292	7146
	MAMMA1001296	F-MAMMA1001296	1646	R-MAMMA1001296	7147
	MAMMA1001298	F-MAMMA1001298	1647	R-MAMMA1001298	7148
	MAMMA1001305	F-MAMMA1001305	1648	R-MAMMA1001305	7149
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	MAMMA1001330	F-MAMMA1001330	1651	R-MAMMA1001330	7152
	MAMMA1001341	F-MAMMA1001341	1652	R-MAMMA1001341	7153
35	MAMMA1001343	F-MAMMA1001343	1653	R-MAMMA1001343	7154
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	MAMMA1001383	F-MAMMA1001383	1655	R-MAMMA1001383	7156
	MAMMA1001388	F-MAMMA1001388	1656	R-MAMMA1001388	7157
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40	MAMMA1001408	F-MAMMA1001408	1658	R-MAMMA1001408	7159
	MAMMA1001411	F-MAMMA1001411	1659	R-MAMMA1001411	7160
	MAMMA1001419	F-MAMMA1001419	1660	R-MAMMA1001419	7161
	MAMMA1001420	F-MAMMA1001420	1661	R-MAMMA1001420	7162
45	MAMMA1001435	F-MAMMA1001435	1662	R-MAMMA1001435	7163
	MAMMA1001442	F-MAMMA1001442	1663	R-MAMMA1001442	7164
	MAMMA1001446	F-MAMMA1001446	1664	R-MAMMA1001446	7165
	MAMMA1001452	F-MAMMA1001452	1665	R-MAMMA1001452	7166
50	MAMMA1001465	F-MAMMA1001465	1666	R-MAMMA1001465	7167
	MAMMA1001476	F-MAMMA1001476	1667	R-MAMMA1001476	7168
	MAMMA1001487	F-MAMMA1001487	1668	R-MAMMA1001487	7169
	MAMMA1001501	F-MAMMA1001501	1669	R-MAMMA1001501	7170
55	MAMMA1001502	F-MAMMA1001502	1670	R-MAMMA1001502	7171
	MAMMA1001510	F-MAMMA1001510	1671	R-MAMMA1001510	7172

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	MAMMA1001522	F-MAMMA1001522	1672	R-MAMMA1001522	7173
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	MAMMA1001551	F-MAMMA1001551	1674	R-MAMMA1001551	7175
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	MAMMA1001576	F-MAMMA1001576	1676	R-MAMMA1001576	7177
	MAMMA1001590	F-MAMMA1001590	1677	R-MAMMA1001590	7178
	MAMMA1001600	F-MAMMA1001600	1678	R-MAMMA1001600	7179
10	MAMMA1001604	F-MAMMA1001604	1679	R-MAMMA1001604	7180
	MAMMA1001606	F-MAMMA1001606	1680	R-MAMMA1001606	7181
	MAMMA1001620	F-MAMMA1001620	1681	R-MAMMA1001620	7182
	MAMMA1001627	F-MAMMA1001627	1682	R-MAMMA1001627	7183
15	MAMMA1001630	F-MAMMA1001630	1683	R-MAMMA1001630	7184
	MAMMA1001633	F-MAMMA1001633	1684	R-MAMMA1001633	7185
	MAMMA1001635	F-MAMMA1001635	1685	R-MAMMA1001635	7186
	MAMMA1001649	F-MAMMA1001649	1686	R-MAMMA1001649	7187
20	MAMMA1001654	F-MAMMA1001654	1687		
	MAMMA1001663	F-MAMMA1001663	1688	R-MAMMA1001663	7188
	MAMMA1001670	F-MAMMA1001670	1689	R-MAMMA1001670	7189
	MAMMA1001671	F-MAMMA1001671	1690	R-MAMMA1001671	7190
25	MAMMA1001679	F-MAMMA1001679	1691	R-MAMMA1001679	7191
	MAMMA1001683	F-MAMMA1001683	1692	R-MAMMA1001683	7192
	MAMMA1001686	F-MAMMA1001686	1693	R-MAMMA1001686	7193
	MAMMA1001692	F-MAMMA1001692	1694	R-MAMMA1001692	7194
30	MAMMA1001711	F-MAMMA1001711	1695	R-MAMMA1001711	7195
	MAMMA1001715	F-MAMMA1001715	1696	R-MAMMA1001715	7196
	MAMMA1001730	F-MAMMA1001730	1697	R-MAMMA1001730	7197
	MAMMA1001735	F-MAMMA1001735	1698	R-MAMMA1001735	7198
35	MAMMA1001740	F-MAMMA1001740	1699	R-MAMMA1001740	7199
	MAMMA1001743	F-MAMMA1001743	1700	R-MAMMA1001743	7200
	MAMMA1001744	F-MAMMA1001744	1701	R-MAMMA1001744	7201
	MAMMA1001745	F-MAMMA1001745	1702	R-MAMMA1001745	7202
40	MAMMA1001751	F-MAMMA1001751	1703	R-MAMMA1001751	7203
	MAMMA1001754	F-MAMMA1001754	1704	R-MAMMA1001754	7204
	MAMMA1001757	F-MAMMA1001757	1705	R-MAMMA1001757	7205
	MAMMA1001760	F-MAMMA1001760	1706	R-MAMMA1001760	7206
45	MAMMA1001764	F-MAMMA1001764	1707	R-MAMMA1001764	7207
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	MAMMA1001769	F-MAMMA1001769	1709	R-MAMMA1001769	7209
	MAMMA1001771	F-MAMMA1001771	1710	R-MAMMA1001771	7210
50	MAMMA1001783	F-MAMMA1001783	1711	R-MAMMA1001783	7211
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	MAMMA1001788	F-MAMMA1001788	1713	R-MAMMA1001788	7213
	MAMMA1001790	F-MAMMA1001790	1714	R-MAMMA1001790	7214
	MAMMA1001806	F-MAMMA1001806	1715	R-MAMMA1001806	7215
55	MAMMA1001812	F-MAMMA1001812	1716	R-MAMMA1001812	7216
	MAMMA1001815	F-MAMMA1001815	1717	R-MAMMA1001815	7217

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	MAMMA1001820	F-MAMMA1001820	1720	R-MAMMA1001820	7220
5	MAMMA1001824	F-MAMMA1001824	1721	R-MAMMA1001824	7221
	MAMMA1001836	F-MAMMA1001836	1722	R-MAMMA1001836	7222
	MAMMA1001837	F-MAMMA1001837	1723	R-MAMMA1001837	7223
	MAMMA1001848	F-MAMMA1001848	1724	R-MAMMA1001848	7224
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	MAMMA1001858	F-MAMMA1001858	1727	R-MAMMA1001858	7227
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15	MAMMA1001868	F-MAMMA1001868	1729	R-nnnnnnnnnnnnn	7229
	MAMMA1001874	F-MAMMA1001874	1730	R-MAMMA1001874	7230
	MAMMA1001878	F-MAMMA1001878	1731	R-MAMMA1001878	7231
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20	MAMMA1001890	F-MAMMA1001890	1733	R-MAMMA1001890	7233
	MAMMA1001907	F-MAMMA1001907	1734	R-MAMMA1001907	7234
	MAMMA1001908	F-MAMMA1001908	1735	R-nnnnnnnnnnnnn	7235
	MAMMA1001931	F-MAMMA1001931	1736	R-MAMMA1001931	7236
25	MAMMA1001956	F-MAMMA1001956	1737	R-MAMMA1001956	7237
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	MAMMA1002011	F-MAMMA1002011	1743	R-MAMMA1002011	7243
	MAMMA1002032	F-MAMMA1002032	1744	R-MAMMA1002032	7244
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	MAMMA1002047	F-MAMMA1002047	1748	R-MAMMA1002047	7248
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40	MAMMA1002058	F-MAMMA1002058	1750	R-MAMMA1002058	7250
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	MAMMA1002082	F-MAMMA1002082	1753	R-MAMMA1002082	7253
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	MAMMA1002093	F-MAMMA1002093	1755	R-MAMMA1002093	7255
	MAMMA1002108	F-MAMMA1002108	1756	R-MAMMA1002108	7256
	MAMMA1002118	F-MAMMA1002118	1757	R-MAMMA1002118	7257
50	MAMMA1002125	F-MAMMA1002125	1758	R-MAMMA1002125	7258
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	MAMMA1002140	F-MAMMA1002140	1760	R-MAMMA1002140	7260
	MAMMA1002143	F-MAMMA1002143	1761	R-MAMMA1002143	7261
55	MAMMA1002145	F-MAMMA1002145	1762	R-MAMMA1002145	7262
	MAMMA1002153	F-MAMMA1002153	1763	R-MAMMA1002153	7263

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	MAMMA1002158	F-MAMMA1002158	1766	R-MAMMA1002158	7266
5	MAMMA1002170	F-MAMMA1002170	1767	R-MAMMA1002170	7267
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	MAMMA1002198	F-MAMMA1002198	1769	R-MAMMA1002198	7269
	MAMMA1002209	F-MAMMA1002209	1770	R-MAMMA1002209	7270
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	MAMMA1002230	F-MAMMA1002230	1773	R-MAMMA1002230	7273
	MAMMA1002236	F-MAMMA1002236	1774	R-MAMMA1002236	7274
15	MAMMA1002243	F-MAMMA1002243	1775	R-MAMMA1002243	7275
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	MAMMA1002267	F-MAMMA1002267	1777	R-MAMMA1002267	7277
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	MAMMA1002292	F-MAMMA1002292	1781	R-MAMMA1002292	7281
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25	MAMMA1002294	F-MAMMA1002294	1783	R-MAMMA1002294	7283
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	MAMMA1002298	F-MAMMA1002298	1785	R-MAMMA1002298	7285
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	MAMMA1002311	F-MAMMA1002311	1789	R-MAMMA1002311	7289
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	MAMMA1002329	F-MAMMA1002329	1794	R-MAMMA1002329	7294
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	MAMMA1002356	F-MAMMA1002356	1803	R-MAMMA1002356	7303
50	MAMMA1002359	F-MAMMA1002359	1804	R-MAMMA1002359	7304
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	MAMMA1002361	F-MAMMA1002361	1806	R-MAMMA1002361	7306
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55	MAMMA1002380	F-MAMMA1002380	1808	R-MAMMA1002380	7308
	MAMMA1002384	F-MAMMA1002384	1809	R-MAMMA1002384	7309

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	MAMMA1002427	F-MAMMA1002427	1815	R-MAMMA1002427	7315
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10	MAMMA1002434	F-MAMMA1002434	1817	R-MAMMA1002434	7317
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	MAMMA1002461	F-MAMMA1002461	1820	R-MAMMA1002461	7320
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	MAMMA1002524	F-MAMMA1002524	1827	R-MAMMA1002524	7327
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25	MAMMA1002545	F-MAMMA1002545	1829	R-MAMMA1002545	7329
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10	MAMMA1002711	F-MAMMA1002711	1863	R-MAMMA1002711	7363
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	MAMMA1002727	F-MAMMA1002727	1865	R-MAMMA1002727	7365
	MAMMA1002728	F-MAMMA1002728	1866	R-MAMMA1002728	7366
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	MAMMA1002754	F-MAMMA1002754	1870	R-MAMMA1002754	7370
20	MAMMA1002758	F-MAMMA1002758	1871	R-MAMMA1002758	7371
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	MAMMA1002765	F-MAMMA1002765	1873	R-MAMMA1002765	7373
	MAMMA1002769	F-MAMMA1002769	1874	R-MAMMA1002769	7374
25	MAMMA1002775	F-MAMMA1002775	1875		
	MAMMA1002780	F-MAMMA1002780	1876	R-MAMMA1002780	7375
	MAMMA1002782	F-MAMMA1002782	1877	R-MAMMA1002782	7376
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30	MAMMA1002807	F-MAMMA1002807	1879	R-MAMMA1002807	7378
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	MAMMA1002830	F-MAMMA1002830	1881	R-MAMMA1002830	7380
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35	MAMMA1002835	F-MAMMA1002835	1883	R-MAMMA1002835	7382
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40	MAMMA1002844	F-MAMMA1002844	1887	R-MAMMA1002844	7386
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	MAMMA1002868	F-MAMMA1002868	1889	R-MAMMA1002868	7388
	MAMMA1002869	F-MAMMA1002869	1890		
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45	MAMMA1002880	F-MAMMA1002880	1892	R-MAMMA1002880	7390
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50	MAMMA1002890	F-MAMMA1002890	1896	R-MAMMA1002890	7394
	MAMMA1002892	F-MAMMA1002892	1897	R-MAMMA1002892	7395
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55	MAMMA1002909	F-MAMMA1002909	1900	R-MAMMA1002909	7398
	MAMMA1002930	F-MAMMA1002930	1901	R-MAMMA1002930	7399

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	MAMMA1002937	F-MAMMA1002937	1902		
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	MAMMA1002970	F-MAMMA1002970	1907	R-MAMMA1002970	7404
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10	MAMMA1002973	F-MAMMA1002973	1909	R-MAMMA1002973	7406
	MAMMA1002982	F-MAMMA1002982	1910	R-MAMMA1002982	7407
	MAMMA1002987	F-MAMMA1002987	1911	R-MAMMA1002987	7408
	MAMMA1003003	F-MAMMA1003003	1912	R-MAMMA1003003	7409
15	MAMMA1003004	F-MAMMA1003004	1913	R-MAMMA1003004	7410
	MAMMA1003007	F-MAMMA1003007	1914	R-MAMMA1003007	7411
	MAMMA1003011	F-MAMMA1003011	1915	R-MAMMA1003011	7412
	MAMMA1003013	F-MAMMA1003013	1916		
20	MAMMA1003015	F-MAMMA1003015	1917	R-MAMMA1003015	7413
	MAMMA1003019	F-MAMMA1003019	1918	R-MAMMA1003019	7414
	MAMMA1003026	F-MAMMA1003026	1919	R-MAMMA1003026	7415
	MAMMA1003031	F-MAMMA1003031	1920	R-MAMMA1003031	7416
25	MAMMA1003035	F-MAMMA1003035	1921	R-MAMMA1003035	7417
	MAMMA1003039	F-MAMMA1003039	1922	R-MAMMA1003039	7418
	MAMMA1003040	F-MAMMA1003040	1923	R-MAMMA1003040	7419
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	MAMMA1003055	F-MAMMA1003055	1927	R-MAMMA1003055	7423
	MAMMA1003056	F-MAMMA1003056	1928	R-MAMMA1003056	7424
35	MAMMA1003057	F-MAMMA1003057	1929	R-MAMMA1003057	7425
	MAMMA1003066	F-MAMMA1003066	1930	R-MAMMA1003066	7426
	MAMMA1003089	F-MAMMA1003089	1931	R-MAMMA1003089	7427
	MAMMA1003099	F-MAMMA1003099	1932	R-MAMMA1003099	7428
40	MAMMA1003104	F-MAMMA1003104	1933	R-MAMMA1003104	7429
	MAMMA1003113	F-MAMMA1003113	1934	R-MAMMA1003113	7430
	MAMMA1003127	F-MAMMA1003127	1935	R-MAMMA1003127	7431
	MAMMA1003135	F-MAMMA1003135	1936	R-MAMMA1003135	7432
45	MAMMA1003140	F-MAMMA1003140	1937	R-MAMMA1003140	7433
	MAMMA1003146	F-MAMMA1003146	1938	R-MAMMA1003146	7434
	MAMMA1003150	F-MAMMA1003150	1939	R-nnnnnnnnnnnnn	7435
	MAMMA1003166	F-MAMMA1003166	1940	R-MAMMA1003166	7436
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	NT2RM1000018	F-NT2RM1000018	1942		
	NT2RM1000032	F-NT2RM1000032	1943		
	NT2RM1000035	F-NT2RM1000035	1944		
55	NT2RM1000037	F-NT2RM1000037	1945		
	NT2RM1000039	F-NT2RM1000039	1946		
	NT2RM1000055	F-NT2RM1000055	1947		

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	NT2RM1000059	F-NT2RM1000059	1948
	NT2RM1000062	F-NT2RM1000062	1949
	NT2RM1000080	F-NT2RM1000080	1950
5	NT2RM1000086	F-NT2RM1000086	1951
	NT2RM1000092	F-NT2RM1000092	1952
	NT2RM1000118	F-NT2RM1000118	1953
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10	NT2RM1000127	F-NT2RM1000127	1955
	NT2RM1000131	F-NT2RM1000131	1956
	NT2RM1000132	F-NT2RM1000132	1957
	NT2RM1000153	F-NT2RM1000153	1958
15	NT2RM1000186	F-NT2RM1000186	1959
	NT2RM1000187	F-NT2RM1000187	1960
	NT2RM1000199	F-NT2RM1000199	1961
	NT2RM1000242	F-NT2RM1000242	1962
20	NT2RM1000244	F-NT2RM1000244	1963
	NT2RM1000252	F-NT2RM1000252	1964
	NT2RM1000256	F-NT2RM1000256	1965
	NT2RM1000257	F-NT2RM1000257	1966
25	NT2RM1000260	F-NT2RM1000260	1967
	NT2RM1000271	F-NT2RM1000271	1968
	NT2RM1000272	F-NT2RM1000272	1969
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30	NT2RM1000300	F-NT2RM1000300	1971
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	NT2RM1000318	F-NT2RM1000318	1973
	NT2RM1000341	F-NT2RM1000341	1974
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35	NT2RM1000355	F-NT2RM1000355	1976
	NT2RM1000365	F-NT2RM1000365	1977
	NT2RM1000377	F-NT2RM1000377	1978
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40	NT2RM1000394	F-NT2RM1000394	1980
	NT2RM1000399	F-NT2RM1000399	1981
	NT2RM1000421	F-NT2RM1000421	1982
	NT2RM1000430	F-NT2RM1000430	1983
45	NT2RM1000499	F-NT2RM1000499	1984
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	NT2RM1000553	F-NT2RM1000553	1986
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50	NT2RM1000563	F-NT2RM1000563	1988
	NT2RM1000623	F-NT2RM1000623	1989
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	NT2RM1000661	F-NT2RM1000661	1991
55	NT2RM1000666	F-NT2RM1000666	1992
	NT2RM1000669	F-NT2RM1000669	1993

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	NT2RM1000672	F-NT2RM1000672	1994
	NT2RM1000691	F-NT2RM1000691	1995
	NT2RM1000699	F-NT2RM1000699	1996
5	NT2RM1000702	F-NT2RM1000702	1997
	NT2RM1000725	F-NT2RM1000725	1998
	NT2RM1000741	F-NT2RM1000741	1999
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10	NT2RM1000746	F-NT2RM1000746	2001
	NT2RM1000770	F-NT2RM1000770	2002
	NT2RM1000772	F-NT2RM1000772	2003
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15	NT2RM1000781	F-NT2RM1000781	2005
	NT2RM1000800	F-NT2RM1000800	2006
	NT2RM1000802	F-NT2RM1000802	2007
	NT2RM1000811	F-NT2RM1000811	2008
20	NT2RM1000826	F-NT2RM1000826	2009
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	NT2RM1000833	F-NT2RM1000833	2011
	NT2RM1000850	F-NT2RM1000850	2012
25	NT2RM1000852	F-NT2RM1000852	2013
	NT2RM1000857	F-NT2RM1000857	2014
	NT2RM1000867	F-NT2RM1000867	2015
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	NT2RM1000882	F-NT2RM1000882	2017
30	NT2RM1000883	F-NT2RM1000883	2018
	NT2RM1000885	F-NT2RM1000885	2019
	NT2RM1000894	F-NT2RM1000894	2020
	NT2RM1000898	F-NT2RM1000898	2021
35	NT2RM1000905	F-NT2RM1000905	2022
	NT2RM1000924	F-NT2RM1000924	2023
	NT2RM1000927	F-NT2RM1000927	2024
	NT2RM1000962	F-NT2RM1000962	2025
40	NT2RM1000978	F-NT2RM1000978	2026
	NT2RM1001003	F-NT2RM1001003	2027
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45	NT2RM1001044	F-NT2RM1001044	2030
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	NT2RM1001066	F-NT2RM1001066	2032
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50	NT2RM1001074	F-NT2RM1001074	2034
	NT2RM1001082	F-NT2RM1001082	2035
	NT2RM1001085	F-NT2RM1001085	2036
	NT2RM1001092	F-NT2RM1001092	2037
55	NT2RM1001102	F-NT2RM1001102	2038
	NT2RM1001105	F-NT2RM1001105	2039

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	NT2RM1001112	F-NT2RM1001112	2040
	NT2RM1001115	F-NT2RM1001115	2041
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5	NT2RM2000006	F-NT2RM2000006	2043
	NT2RM2000013	F-NT2RM2000013	2044
	NT2RM2000030	F-NT2RM2000030	2045
	NT2RM2000032	F-NT2RM2000032	2046
10	NT2RM2000042	F-NT2RM2000042	2047
	NT2RM2000092	F-NT2RM2000092	2048
	NT2RM2000093	F-NT2RM2000093	2049
	NT2RM2000101	F-NT2RM2000101	2050
15	NT2RM2000124	F-NT2RM2000124	2051
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	NT2RM2000192	F-NT2RM2000192	2053
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25	NT2RM2000287	F-NT2RM2000287	2059
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	NT2RM2000359	F-NT2RM2000359	2061
	NT2RM2000363	F-NT2RM2000363	2062
30	NT2RM2000368	F-NT2RM2000368	2063
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35	NT2RM2000407	F-NT2RM2000407	2068
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40	NT2RM2000469	F-NT2RM2000469	2072
	NT2RM2000490	F-NT2RM2000490	2073
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45	NT2RM2000522	F-NT2RM2000522	2076
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55	NT2RM2000588	F-NT2RM2000588	2084
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	NT2RM2000609	F-NT2RM2000609	2087
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5	NT2RM2000623	F-NT2RM2000623	2089
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10	NT2RM2000639	F-NT2RM2000639	2093
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15	NT2RM2000714	F-NT2RM2000714	2097
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	NT2RM2000735	F-NT2RM2000735	2099
	NT2RM2000740	F-NT2RM2000740	2100
20	NT2RM2000795	F-NT2RM2000795	2101
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	NT2RM2000837	F-NT2RM2000837	2103
	NT2RM2000951	F-NT2RM2000951	2104
25	NT2RM2000952	F-NT2RM2000952	2105
	NT2RM2000984	F-NT2RM2000984	2106
	NT2RM2001004	F-NT2RM2001004	2107
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30	NT2RM2001100	F-NT2RM2001100	2110
	NT2RM2001105	F-NT2RM2001105	2111
	NT2RM2001131	F-NT2RM2001131	2112
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35	NT2RM2001152	F-NT2RM2001152	2114
	NT2RM2001177	F-NT2RM2001177	2115
	NT2RM2001194	F-NT2RM2001194	2116
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40	NT2RM2001201	F-NT2RM2001201	2118
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45	NT2RM2001247	F-NT2RM2001247	2122
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	NT2RM2001312	F-NT2RM2001312	2126
50	NT2RM2001319	F-NT2RM2001319	2127
	NT2RM2001324	F-NT2RM2001324	2128
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	NT2RM2001360	F-NT2RM2001360	2130
55	NT2RM2001370	F-NT2RM2001370	2131

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	NT2RM2001393	F-NT2RM2001393	2132
	NT2RM2001420	F-NT2RM2001420	2133
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	NT2RM2001524	F-NT2RM2001524	2137
	NT2RM2001544	F-NT2RM2001544	2138
10	NT2RM2001547	F-NT2RM2001547	2139
	NT2RM2001575	F-NT2RM2001575	2140
	NT2RM2001582	F-NT2RM2001582	2141
	NT2RM2001588	F-NT2RM2001588	2142
15	NT2RM2001592	F-NT2RM2001592	2143
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	NT2RM2001613	F-NT2RM2001613	2145
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20	NT2RM2001635	F-NT2RM2001635	2147
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25	NT2RM2001652	F-NT2RM2001652	2151
	NT2RM2001659	F-NT2RM2001659	2152
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30	NT2RM2001671	F-NT2RM2001671	2156
	NT2RM2001675	F-NT2RM2001675	2157
	NT2RM2001681	F-NT2RM2001681	2158
	NT2RM2001688	F-NT2RM2001688	2159
35	NT2RM2001695	F-NT2RM2001695	2160
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	NT2RM2001698	F-NT2RM2001698	2162
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	NT2RM2001706	F-NT2RM2001706	2165
	NT2RM2001716	F-NT2RM2001716	2166
	NT2RM2001718	F-NT2RM2001718	2167
45	NT2RM2001723	F-NT2RM2001723	2168
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	NT2RM2001730	F-NT2RM2001730	2170
	NT2RM2001743	F-NT2RM2001743	2171
50	NT2RM2001753	F-NT2RM2001753	2172
	NT2RM2001760	F-NT2RM2001760	2173
	NT2RM2001768	F-NT2RM2001768	2174
	NT2RM2001771	F-NT2RM2001771	2175
55	NT2RM2001782	F-NT2RM2001782	2176
	NT2RM2001784	F-NT2RM2001784	2177

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	NT2RM2001785	F-NT2RM2001785	2178	
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	NT2RM2001840	F-NT2RM2001840	2186	
	NT2RM2001855	F-NT2RM2001855	2187	
	NT2RM2001867	F-NT2RM2001867	2188	
15	NT2RM2001879	F-NT2RM2001879	2189	
	NT2RM2001886	F-NT2RM2001886	2190	
	NT2RM2001896	F-NT2RM2001896	2191	
	NT2RM2001903	F-NT2RM2001903	2192	
20	NT2RM2001930	F-NT2RM2001930	2193	
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30	NT2RM2001998	F-NT2RM2001998	2201	
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	NT2RM2002014	F-NT2RM2002014	2203	
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	NT2RM2002088	F-NT2RM2002088	2207	
	NT2RM2002091	F-NT2RM2002091	2208	
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40	NT2RM2002109	F-NT2RM2002109	2210	
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	NT2RM2002142	F-NT2RM2002142	2212	
	NT2RM2002145	F-NT2RM2002145	2213	
45	NT2RM2002178	F-NT2RM2002178	2214	
	NT2RM2002580	F-NT2RM2002580	2215	R-NT2RM2002580 7437
	NT2RM4000024	F-NT2RM4000024	2216	R-NT2RM4000024 7438
	NT2RM4000027	F-NT2RM4000027	2217	R-NT2RM4000027 7439
50	NT2RM4000030	F-NT2RM4000030	2218	R-NT2RM4000030 7440
	NT2RM4000046	F-NT2RM4000046	2219	R-NT2RM4000046 7441
	NT2RM4000061	F-NT2RM4000061	2220	R-NT2RM4000061 7442
	NT2RM4000085	F-NT2RM4000085	2221	R-NT2RM4000085 7443
55	NT2RM4000086	F-NT2RM4000086	2222	R-NT2RM4000086 7444
	NT2RM4000104	F-NT2RM4000104	2223	R-NT2RM4000104 7445

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	NT2RM4000139	F-NT2RM4000139	2224	R-NT2RM4000139	7446
	NT2RM4000155	F-NT2RM4000155	2225	R-NT2RM4000155	7447
	NT2RM4000156	F-NT2RM4000156	2226	R-NT2RM4000156	7448
5	NT2RM4000167	F-NT2RM4000167	2227	R-ntntntntntntntnt	7449
	NT2RM4000169	F-NT2RM4000169	2228	R-NT2RM4000169	7450
	NT2RM4000191	F-NT2RM4000191	2229	R-NT2RM4000191	7451
	NT2RM4000197	F-NT2RM4000197	2230	R-NT2RM4000197	7452
10	NT2RM4000199	F-NT2RM4000199	2231	R-NT2RM4000199	7453
	NT2RM4000200	F-NT2RM4000200	2232	R-NT2RM4000200	7454
	NT2RM4000202	F-NT2RM4000202	2233	R-NT2RM4000202	7455
	NT2RM4000210	F-NT2RM4000210	2234	R-NT2RM4000210	7456
15	NT2RM4000215	F-NT2RM4000215	2235	R-NT2RM4000215	7457
	NT2RM4000229	F-NT2RM4000229	2236	R-ntntntntntntntnt	7458
	NT2RM4000233	F-NT2RM4000233	2237	R-NT2RM4000233	7459
	NT2RM4000244	F-NT2RM4000244	2238	R-NT2RM4000244	7460
20	NT2RM4000251	F-NT2RM4000251	2239	R-NT2RM4000251	7461
	NT2RM4000265	F-NT2RM4000265	2240	R-NT2RM4000265	7462
	NT2RM4000290	F-NT2RM4000290	2241	R-NT2RM4000290	7463
	NT2RM4000324	F-NT2RM4000324	2242	R-NT2RM4000324	7464
25	NT2RM4000327	F-NT2RM4000327	2243	R-NT2RM4000327	7465
	NT2RM4000344	F-NT2RM4000344	2244	R-NT2RM4000344	7466
	NT2RM4000349	F-NT2RM4000349	2245	R-NT2RM4000349	7467
	NT2RM4000354	F-NT2RM4000354	2246	R-NT2RM4000354	7468
30	NT2RM4000356	F-NT2RM4000356	2247	R-NT2RM4000356	7469
	NT2RM4000366	F-NT2RM4000366	2248	R-NT2RM4000366	7470
	NT2RM4000368	F-NT2RM4000368	2249	R-NT2RM4000368	7471
	NT2RM4000386	F-NT2RM4000386	2250	R-NT2RM4000386	7472
	NT2RM4000395	F-NT2RM4000395	2251	R-NT2RM4000395	7473
35	NT2RM4000414	F-NT2RM4000414	2252	R-NT2RM4000414	7474
	NT2RM4000421	F-NT2RM4000421	2253	R-NT2RM4000421	7475
	NT2RM4000425	F-NT2RM4000425	2254	R-NT2RM4000425	7476
40	NT2RM4000433	F-NT2RM4000433	2255	R-NT2RM4000433	7477
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	NT2RM4000471	F-NT2RM4000471	2257	R-NT2RM4000471	7479
	NT2RM4000486	F-NT2RM4000486	2258	R-NT2RM4000486	7480
	NT2RM4000496	F-NT2RM4000496	2259	R-NT2RM4000496	7481
45	NT2RM4000511	F-NT2RM4000511	2260	R-NT2RM4000511	7482
	NT2RM4000514	F-NT2RM4000514	2261	R-NT2RM4000514	7483
	NT2RM4000515	F-NT2RM4000515	2262	R-ntntntntntntntnt	7484
	NT2RM4000520	F-NT2RM4000520	2263	R-NT2RM4000520	7485
50	NT2RM4000531	F-NT2RM4000531	2264	R-NT2RM4000531	7486
	NT2RM4000532	F-NT2RM4000532	2265	R-NT2RM4000532	7487
	NT2RM4000534	F-NT2RM4000534	2266	R-NT2RM4000534	7488
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55	NT2RM4000590	F-NT2RM4000590	2268	R-NT2RM4000590	7490
	NT2RM4000595	F-NT2RM4000595	2269	R-NT2RM4000595	7491

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	NT2RM4000603	F-NT2RM4000603	2270	R-NT2RM4000603	7492
	NT2RM4000611	F-NT2RM4000611	2271	R-nnnnnnnnnnnnn	7493
	NT2RM4000616	F-NT2RM4000616	2272	R-NT2RM4000616	7494
5	NT2RM4000674	F-NT2RM4000674	2273	R-NT2RM4000674	7495
	NT2RM4000689	F-NT2RM4000689	2274	R-NT2RM4000689	7496
	NT2RM4000698	F-NT2RM4000698	2275	R-NT2RM4000698	7497
	NT2RM4000700	F-NT2RM4000700	2276	R-nnnnnnnnnnnnn	7498
10	NT2RM4000712	F-NT2RM4000712	2277	R-NT2RM4000712	7499
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	NT2RM4000733	F-NT2RM4000733	2279	R-NT2RM4000733	7501
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15	NT2RM4000741	F-NT2RM4000741	2281	R-NT2RM4000741	7503
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	NT2RM4000764	F-NT2RM4000764	2283	R-NT2RM4000764	7505
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	NT2RM4000813	F-NT2RM4000813	2291	R-NT2RM4000813	7513
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30	NT2RM4000833	F-NT2RM4000833	2293	R-NT2RM4000833	7515
	NT2RM4000848	F-NT2RM4000848	2294	R-NT2RM4000848	7516
	NT2RM4000852	F-NT2RM4000852	2295	R-NT2RM4000852	7517
	NT2RM4000855	F-NT2RM4000855	2296	R-NT2RM4000855	7518
	NT2RM4000887	F-NT2RM4000887	2297	R-nnnnnnnnnnnnn	7519
35	NT2RM4000895	F-NT2RM4000895	2298	R-NT2RM4000895	7520
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	NT2RM4000971	F-NT2RM4000971	2300	R-NT2RM4000971	7522
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40	NT2RM4000996	F-NT2RM4000996	2302	R-NT2RM4000996	7524
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	NT2RM4001016	F-NT2RM4001016	2304	R-NT2RM4001016	7526
	NT2RM4001032	F-NT2RM4001032	2305	R-NT2RM4001032	7527
45	NT2RM4001047	F-NT2RM4001047	2306	R-NT2RM4001047	7528
	NT2RM4001054	F-NT2RM4001054	2307	R-NT2RM4001054	7529
	NT2RM4001084	F-NT2RM4001084	2308	R-nnnnnnnnnnnnn	7530
	NT2RM4001092	F-NT2RM4001092	2309	R-NT2RM4001092	7531
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	NT2RM4001151	F-NT2RM4001151	2312	R-NT2RM4001151	7534
	NT2RM4001155	F-NT2RM4001155	2313	R-NT2RM4001155	7535
55	NT2RM4001160	F-NT2RM4001160	2314	R-NT2RM4001160	7536
	NT2RM4001187	F-NT2RM4001187	2315	R-NT2RM4001187	7537

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	NT2RM4001191	F-NT2RM4001191	2316	R-NT2RM4001191	7538
	NT2RM4001200	F-NT2RM4001200	2317	R-NT2RM4001200	7539
	NT2RM4001203	F-NT2RM4001203	2318	R-NT2RM4001203	7540
5	NT2RM4001204	F-NT2RM4001204	2319	R-NT2RM4001204	7541
	NT2RM4001217	F-NT2RM4001217	2320	R-NT2RM4001217	7542
	NT2RM4001256	F-NT2RM4001256	2321	R-NT2RM4001256	7543
	NT2RM4001258	F-NT2RM4001258	2322	R-NT2RM4001258	7544
10	NT2RM4001309	F-NT2RM4001309	2323	R-NT2RM4001309	7545
	NT2RM4001313	F-NT2RM4001313	2324	R-NT2RM4001313	7546
	NT2RM4001316	F-NT2RM4001316	2325	R-NT2RM4001316	7547
	NT2RM4001320	F-NT2RM4001320	2326	R-NT2RM4001320	7548
15	NT2RM4001340	F-NT2RM4001340	2327	R-NT2RM4001340	7549
	NT2RM4001344	F-NT2RM4001344	2328	R-NT2RM4001344	7550
	NT2RM4001347	F-NT2RM4001347	2329	R-NT2RM4001347	7551
	NT2RM4001371	F-NT2RM4001371	2330	R-NT2RM4001371	7552
20	NT2RM4001382	F-NT2RM4001382	2331	R-NT2RM4001382	7553
	NT2RM4001384	F-NT2RM4001384	2332	R-NT2RM4001384	7554
	NT2RM4001410	F-NT2RM4001410	2333	R-NT2RM4001410	7555
	NT2RM4001411	F-NT2RM4001411	2334	R-NT2RM4001411	7556
25	NT2RM4001412	F-NT2RM4001412	2335	R-NT2RM4001412	7557
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	NT2RM4001437	F-NT2RM4001437	2337	R-NT2RM4001437	7559
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	NT2RM4001565	F-NT2RM4001565	2346	R-NT2RM4001565	7568
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	NT2RM4001594	F-NT2RM4001594	2351	R-NT2RM4001594	7573
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	NT2RM4001629	F-NT2RM4001629	2355	R-NT2RM4001629	7577
	NT2RM4001650	F-NT2RM4001650	2356	R-NT2RM4001650	7578
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	NT2RM4001682	F-NT2RM4001682	2359	R-NT2RM4001682	7581
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55	NT2RM4001714	F-NT2RM4001714	2361	R-NT2RM4001714	7583

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	NT2RM4001715	F-NT2RM4001715	2362	R-nnnnnnnnnnnnn	7584
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	NT2RM4001754	F-NT2RM4001754	2366	R-NT2RM4001754	7588
	NT2RM4001758	F-NT2RM4001758	2367	R-NT2RM4001758	7589
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	NT2RM4001841	F-NT2RM4001841	2376	R-NT2RM4001841	7597
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	NT2RM4001858	F-NT2RM4001858	2379	R-nnnnnnnnnnnnn	7600
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	NT2RM4001922	F-NT2RM4001922	2384	R-NT2RM4001922	7605
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	NT2RM4001953	F-NT2RM4001953	2388	R-NT2RM4001953	7609
	NT2RM4001965	F-NT2RM4001965	2389	R-NT2RM4001965	7610
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	NT2RM4002018	F-NT2RM4002018	2395	R-NT2RM4002018	7616
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	NT2RM4002044	F-NT2RM4002044	2397	R-NT2RM4002044	7618
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	NT2RM4002093	F-NT2RM4002093	2406	R-NT2RM4002093	7626
55	NT2RM4002109	F-NT2RM4002109	2407	R-nnnnnnnnnnnnn	7627

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		NT2RM4002174	F-NT2RM4002174	2413	R-NT2RM4002174	7633
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25		NT2RM4002323	F-NT2RM4002323	2427	R-NT2RM4002323	7647
		NT2RM4002339	F-NT2RM4002339	2428	R-NT2RM4002339	7648
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		NT2RM4002390	F-NT2RM4002390	2433	R-NT2RM4002390	7653
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		NT2RM4002493	F-NT2RM4002493	2443	R-NT2RM4002493	7662
45		NT2RM4002499	F-NT2RM4002499	2444	R-NT2RM4002499	7663
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50		NT2RM4002534	F-NT2RM4002534	2448	R-NT2RM4002534	7667
		NT2RM4002558	F-NT2RM4002558	2449		
		NT2RM4002565	F-NT2RM4002565	2450		
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		NT2RM4002571	F-NT2RM4002571	2452	R-NT2RM4002571	7669
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	NT2RP1000112	F-NT2RP1000112	2463	
	NT2RP1000124	F-NT2RP1000124	2464	
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55	NT2RP1000581	F-NT2RP1000581	2498	
	NT2RP1000609	F-NT2RP1000609	2499	

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	NT2RP1000629	F-NT2RP1000629	2500
	NT2RP1000630	F-NT2RP1000630	2501
	NT2RP1000677	F-NT2RP1000677	2502
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55	NT2RP1001185	F-NT2RP1001185	2544
	NT2RP1001199	F-NT2RP1001199	2545

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	NT2RP1001313	F-NT2RP1001313	2554		
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	NT2RP2000054	F-NT2RP2000054	2580	R-NT2RP2000054	7678
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	NT2RP2000091	F-NT2RP2000091	2588	R-NT2RP2000091	7686
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	NT2RP2000108	F-NT2RP2000108	2591	R-NT2RP2000108	7689

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5	NT2RP2000133	F-NT2RP2000133	2595	R-ntntntntntntntntntntnt	7693
	NT2RP2000147	F-NT2RP2000147	2596	R-NT2RP2000147	7694
	NT2RP2000153	F-NT2RP2000153	2597	R-NT2RP2000153	7695
	NT2RP2000157	F-NT2RP2000157	2598	R-NT2RP2000157	7696
10	NT2RP2000161	F-NT2RP2000161	2599	R-NT2RP2000161	7697
	NT2RP2000173	F-NT2RP2000173	2600		
	NT2RP2000175	F-NT2RP2000175	2601	R-NT2RP2000175	7698
	NT2RP2000183	F-NT2RP2000183	2602	R-NT2RP2000183	7699
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	NT2RP2000205	F-NT2RP2000205	2604	R-NT2RP2000205	7701
	NT2RP2000208	F-NT2RP2000208	2605		
	NT2RP2000224	F-NT2RP2000224	2606	R-NT2RP2000224	7702
20	NT2RP2000232	F-NT2RP2000232	2607	R-NT2RP2000232	7703
	NT2RP2000233	F-NT2RP2000233	2608	R-NT2RP2000233	7704
	NT2RP2000239	F-NT2RP2000239	2609	R-NT2RP2000239	7705
	NT2RP2000248	F-NT2RP2000248	2610	R-NT2RP2000248	7706
25	NT2RP2000257	F-NT2RP2000257	2611	R-NT2RP2000257	7707
	NT2RP2000258	F-NT2RP2000258	2612	R-NT2RP2000258	7708
	NT2RP2000270	F-NT2RP2000270	2613	R-NT2RP2000270	7709
	NT2RP2000274	F-NT2RP2000274	2614	R-NT2RP2000274	7710
30	NT2RP2000283	F-NT2RP2000283	2615		
	NT2RP2000288	F-NT2RP2000288	2616	R-NT2RP2000288	7711
	NT2RP2000289	F-NT2RP2000289	2617	R-NT2RP2000289	7712
	NT2RP2000297	F-NT2RP2000297	2618	R-NT2RP2000297	7713
35	NT2RP2000298	F-NT2RP2000298	2619	R-NT2RP2000298	7714
	NT2RP2000310	F-NT2RP2000310	2620	R-NT2RP2000310	7715
	NT2RP2000327	F-NT2RP2000327	2621	R-NT2RP2000327	7716
	NT2RP2000328	F-NT2RP2000328	2622		
	NT2RP2000329	F-NT2RP2000329	2623	R-NT2RP2000329	7717
40	NT2RP2000337	F-NT2RP2000337	2624	R-NT2RP2000337	7718
	NT2RP2000346	F-NT2RP2000346	2625	R-NT2RP2000346	7719
	NT2RP2000369	F-NT2RP2000369	2626	R-NT2RP2000369	7720
	NT2RP2000412	F-NT2RP2000412	2627		
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	NT2RP2000420	F-NT2RP2000420	2629	R-NT2RP2000420	7722
	NT2RP2000422	F-NT2RP2000422	2630	R-NT2RP2000422	7723
	NT2RP2000438	F-NT2RP2000438	2631	R-NT2RP2000438	7724
50	NT2RP2000448	F-NT2RP2000448	2632	R-NT2RP2000448	7725
	NT2RP2000459	F-NT2RP2000459	2633	R-NT2RP2000459	7726
	NT2RP2000498	F-NT2RP2000498	2634	R-NT2RP2000498	7727
	NT2RP2000503	F-NT2RP2000503	2635	R-NT2RP2000503	7728
55	NT2RP2000510	F-NT2RP2000510	2636	R-NT2RP2000510	7729
	NT2RP2000516	F-NT2RP2000516	2637	R-ntntntntntntntntntntnt	7730

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	NT2RP2000603	F-NT2RP2000603	2639	R-NT2RP2000603	7732
	NT2RP2000617	F-NT2RP2000617	2640	R-NT2RP2000617	7733
5	NT2RP2000634	F-NT2RP2000634	2641	R-NT2RP2000634	7734
	NT2RP2000644	F-NT2RP2000644	2642	R-NT2RP2000644	7735
	NT2RP2000656	F-NT2RP2000656	2643	R-NT2RP2000656	7736
	NT2RP2000658	F-NT2RP2000658	2644	R-NT2RP2000658	7737
10	NT2RP2000668	F-NT2RP2000668	2645	R-NT2RP2000668	7738
	NT2RP2000678	F-NT2RP2000678	2646	R-NT2RP2000678	7739
	NT2RP2000704	F-NT2RP2000704	2647		
	NT2RP2000710	F-NT2RP2000710	2648	R-NT2RP2000710	7740
15	NT2RP2000715	F-NT2RP2000715	2649	R-NT2RP2000715	7741
	NT2RP2000731	F-NT2RP2000731	2650	R-NT2RP2000731	7742
	NT2RP2000758	F-NT2RP2000758	2651	R-NT2RP2000758	7743
	NT2RP2000764	F-NT2RP2000764	2652	R-NT2RP2000764	7744
20	NT2RP2000809	F-NT2RP2000809	2653	R-NT2RP2000809	7745
	NT2RP2000812	F-NT2RP2000812	2654	R-NT2RP2000812	7746
	NT2RP2000814	F-NT2RP2000814	2655	R-ntntntntntntntntntntnt	7747
	NT2RP2000816	F-NT2RP2000816	2656	R-NT2RP2000816	7748
25	NT2RP2000819	F-NT2RP2000819	2657	R-NT2RP2000819	7749
	NT2RP2000841	F-NT2RP2000841	2658	R-NT2RP2000841	7750
	NT2RP2000842	F-NT2RP2000842	2659	R-NT2RP2000842	7751
	NT2RP2000845	F-NT2RP2000845	2660	R-NT2RP2000845	7752
30	NT2RP2000863	F-NT2RP2000863	2661	R-NT2RP2000863	7753
	NT2RP2000880	F-NT2RP2000880	2662	R-NT2RP2000880	7754
	NT2RP2000892	F-NT2RP2000892	2663	R-NT2RP2000892	7755
	NT2RP2000931	F-NT2RP2000931	2664	R-NT2RP2000931	7756
35	NT2RP2000932	F-NT2RP2000932	2665		
	NT2RP2000938	F-NT2RP2000938	2666	R-NT2RP2000938	7757
	NT2RP2000943	F-NT2RP2000943	2667	R-NT2RP2000943	7758
	NT2RP2000965	F-NT2RP2000965	2668	R-NT2RP2000965	7759
40	NT2RP2000970	F-NT2RP2000970	2669	R-NT2RP2000970	7760
	NT2RP2000985	F-NT2RP2000985	2670	R-NT2RP2000985	7761
	NT2RP2000987	F-NT2RP2000987	2671	R-NT2RP2000987	7762
	NT2RP2001036	F-NT2RP2001036	2672	R-NT2RP2001036	7763
	NT2RP2001044	F-NT2RP2001044	2673	R-NT2RP2001044	7764
45	NT2RP2001056	F-NT2RP2001056	2674		
	NT2RP2001065	F-NT2RP2001065	2675	R-NT2RP2001065	7765
	NT2RP2001070	F-NT2RP2001070	2676	R-NT2RP2001070	7766
	NT2RP2001081	F-NT2RP2001081	2677		
50	NT2RP2001094	F-NT2RP2001094	2678	R-NT2RP2001094	7767
	NT2RP2001119	F-NT2RP2001119	2679	R-NT2RP2001119	7768
	NT2RP2001127	F-NT2RP2001127	2680	R-NT2RP2001127	7769
	NT2RP2001137	F-NT2RP2001137	2681	R-NT2RP2001137	7770
55	NT2RP2001149	F-NT2RP2001149	2682	R-NT2RP2001149	7771
	NT2RP2001168	F-NT2RP2001168	2683	R-NT2RP2001168	7772

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	NT2RP2001173	F-NT2RP2001173	2684	R-NT2RP2001173	7773
	NT2RP2001174	F-NT2RP2001174	2685	R-NT2RP2001174	7774
	NT2RP2001196	F-NT2RP2001196	2686	R-NT2RP2001196	7775
5	NT2RP2001218	F-NT2RP2001218	2687	R-NT2RP2001218	7776
	NT2RP2001226	F-NT2RP2001226	2688	R-NT2RP2001226	7777
	NT2RP2001233	F-NT2RP2001233	2689	R-NT2RP2001233	7778
	NT2RP2001245	F-NT2RP2001245	2690	R-NT2RP2001245	7779
10	NT2RP2001268	F-NT2RP2001268	2691	R-NT2RP2001268	7780
	NT2RP2001277	F-NT2RP2001277	2692	R-NT2RP2001277	7781
	NT2RP2001290	F-NT2RP2001290	2693	R-NT2RP2001290	7782
	NT2RP2001295	F-NT2RP2001295	2694	R-NT2RP2001295	7783
15	NT2RP2001312	F-NT2RP2001312	2695	R-NT2RP2001312	7784
	NT2RP2001327	F-NT2RP2001327	2696	R-NT2RP2001327	7785
	NT2RP2001328	F-NT2RP2001328	2697	R-NT2RP2001328	7786
	NT2RP2001347	F-NT2RP2001347	2698	R-NT2RP2001347	7787
20	NT2RP2001366	F-NT2RP2001366	2699		
	NT2RP2001378	F-NT2RP2001378	2700	R-NT2RP2001378	7788
	NT2RP2001381	F-NT2RP2001381	2701	R-NT2RP2001381	7789
	NT2RP2001392	F-NT2RP2001392	2702	R-NT2RP2001392	7790
25	NT2RP2001394	F-NT2RP2001394	2703	R-NT2RP2001394	7791
	NT2RP2001397	F-NT2RP2001397	2704	R-NT2RP2001397	7792
	NT2RP2001420	F-NT2RP2001420	2705	R-NT2RP2001420	7793
	NT2RP2001423	F-NT2RP2001423	2706	R-NT2RP2001423	7794
30	NT2RP2001427	F-NT2RP2001427	2707	R-NT2RP2001427	7795
	NT2RP2001436	F-NT2RP2001436	2708	R-NT2RP2001436	7796
	NT2RP2001440	F-NT2RP2001440	2709	R-NT2RP2001440	7797
	NT2RP2001445	F-NT2RP2001445	2710	R-NT2RP2001445	7798
	NT2RP2001449	F-NT2RP2001449	2711	R-NT2RP2001449	7799
35	NT2RP2001450	F-NT2RP2001450	2712	R-NT2RP2001450	7800
	NT2RP2001467	F-NT2RP2001467	2713	R-NT2RP2001467	7801
	NT2RP2001506	F-NT2RP2001506	2714	R-NT2RP2001506	7802
	NT2RP2001511	F-NT2RP2001511	2715	R-NT2RP2001511	7803
40	NT2RP2001520	F-NT2RP2001520	2716	R-NT2RP2001520	7804
	NT2RP2001526	F-NT2RP2001526	2717	R-NT2RP2001526	7805
	NT2RP2001536	F-NT2RP2001536	2718	R-NT2RP2001536	7806
	NT2RP2001560	F-NT2RP2001560	2719	R-NT2RP2001560	7807
45	NT2RP2001569	F-NT2RP2001569	2720	R-NT2RP2001569	7808
	NT2RP2001576	F-NT2RP2001576	2721	R-NT2RP2001576	7809
	NT2RP2001581	F-NT2RP2001581	2722	R-NT2RP2001581	7810
	NT2RP2001597	F-NT2RP2001597	2723	R-NT2RP2001597	7811
50	NT2RP2001601	F-NT2RP2001601	2724	R-NT2RP2001601	7812
	NT2RP2001613	F-NT2RP2001613	2725	R-NT2RP2001613	7813
	NT2RP2001628	F-NT2RP2001628	2726	R-NT2RP2001628	7814
	NT2RP2001634	F-NT2RP2001634	2727		
55	NT2RP2001660	F-NT2RP2001660	2728		
	NT2RP2001663	F-NT2RP2001663	2729	R-NT2RP2001663	7815

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	NT2RP2001677	F-NT2RP2001677	2731	R-NT2RP2001677	7816
	NT2RP2001678	F-NT2RP2001678	2732	R-NT2RP2001678	7817
5	NT2RP2001699	F-NT2RP2001699	2733	R-NT2RP2001699	7818
	NT2RP2001720	F-NT2RP2001720	2734	R-NT2RP2001720	7819
	NT2RP2001721	F-NT2RP2001721	2735	R-NT2RP2001721	7820
	NT2RP2001740	F-NT2RP2001740	2736	R-NT2RP2001740	7821
10	NT2RP2001748	F-NT2RP2001748	2737	R-NT2RP2001748	7822
	NT2RP2001762	F-NT2RP2001762	2738	R-NT2RP2001762	7823
	NT2RP2001813	F-NT2RP2001813	2739	R-NT2RP2001813	7824
	NT2RP2001839	F-NT2RP2001839	2740		
15	NT2RP2001861	F-NT2RP2001861	2741	R-NT2RP2001861	7825
	NT2RP2001869	F-NT2RP2001869	2742	R-NT2RP2001869	7826
	NT2RP2001876	F-NT2RP2001876	2743	R-NT2RP2001876	7827
	NT2RP2001883	F-NT2RP2001883	2744	R-NT2RP2001883	7828
20	NT2RP2001898	F-NT2RP2001898	2745		
	NT2RP2001900	F-NT2RP2001900	2746	R-NT2RP2001900	7829
	NT2RP2001907	F-NT2RP2001907	2747	R-NT2RP2001907	7830
	NT2RP2001926	F-NT2RP2001926	2748	R-NT2RP2001926	7831
25	NT2RP2001936	F-NT2RP2001936	2749	R-NT2RP2001936	7832
	NT2RP2001943	F-NT2RP2001943	2750	R-NT2RP2001943	7833
	NT2RP2001946	F-NT2RP2001946	2751	R-NT2RP2001946	7834
	NT2RP2001947	F-NT2RP2001947	2752	R-NT2RP2001947	7835
30	NT2RP2001969	F-NT2RP2001969	2753	R-NT2RP2001969	7836
	NT2RP2001976	F-NT2RP2001976	2754	R-NT2RP2001976	7837
	NT2RP2001985	F-NT2RP2001985	2755	R-NT2RP2001985	7838
	NT2RP2001991	F-NT2RP2001991	2756		
35	NT2RP2002025	F-NT2RP2002025	2757	R-NT2RP2002025	7839
	NT2RP2002032	F-NT2RP2002032	2758	R-NT2RP2002032	7840
	NT2RP2002033	F-NT2RP2002033	2759	R-NT2RP2002033	7841
	NT2RP2002041	F-NT2RP2002041	2760	R-NT2RP2002041	7842
40	NT2RP2002046	F-NT2RP2002046	2761	R-NT2RP2002046	7843
	NT2RP2002047	F-NT2RP2002047	2762	R-NT2RP2002047	7844
	NT2RP2002058	F-NT2RP2002058	2763	R-NT2RP2002058	7845
	NT2RP2002066	F-NT2RP2002066	2764	R-NT2RP2002066	7846
	NT2RP2002070	F-NT2RP2002070	2765	R-NT2RP2002070	7847
45	NT2RP2002076	F-NT2RP2002076	2766	R-NT2RP2002076	7848
	NT2RP2002078	F-NT2RP2002078	2767		
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	NT2RP2002099	F-NT2RP2002099	2769	R-NT2RP2002099	7850
50	NT2RP2002105	F-NT2RP2002105	2770	R-NT2RP2002105	7851
	NT2RP2002124	F-NT2RP2002124	2771	R-NT2RP2002124	7852
	NT2RP2002137	F-NT2RP2002137	2772	R-NT2RP2002137	7853
	NT2RP2002154	F-NT2RP2002154	2773	R-NT2RP2002154	7854
55	NT2RP2002172	F-NT2RP2002172	2774	R-NT2RP2002172	7855
	NT2RP2002185	F-NT2RP2002185	2775	R-NT2RP2002185	7856

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	NT2RP2002192	F-NT2RP2002192	2776	R-NT2RP2002192	7857
	NT2RP2002193	F-NT2RP2002193	2777	R-NT2RP2002193	7858
	NT2RP2002208	F-NT2RP2002208	2778	R-NT2RP2002208	7859
5	NT2RP2002219	F-NT2RP2002219	2779	R-NT2RP2002219	7860
	NT2RP2002231	F-NT2RP2002231	2780	R-NT2RP2002231	7861
	NT2RP2002235	F-NT2RP2002235	2781		
	NT2RP2002252	F-NT2RP2002252	2782	R-nnnnnnnnnnnnn	7862
10	NT2RP2002256	F-NT2RP2002256	2783	R-NT2RP2002256	7863
	NT2RP2002259	F-NT2RP2002259	2784	R-NT2RP2002259	7864
	NT2RP2002270	F-NT2RP2002270	2785	R-NT2RP2002270	7865
	NT2RP2002292	F-NT2RP2002292	2786	R-NT2RP2002292	7866
15	NT2RP2002312	F-NT2RP2002312	2787	R-NT2RP2002312	7867
	NT2RP2002316	F-NT2RP2002316	2788	R-NT2RP2002316	7868
	NT2RP2002325	F-NT2RP2002325	2789	R-NT2RP2002325	7869
	NT2RP2002333	F-NT2RP2002333	2790	R-NT2RP2002333	7870
20	NT2RP2002373	F-NT2RP2002373	2791		
	NT2RP2002385	F-NT2RP2002385	2792	R-NT2RP2002385	7871
	NT2RP2002394	F-NT2RP2002394	2793	R-NT2RP2002394	7872
	NT2RP2002408	F-NT2RP2002408	2794	R-NT2RP2002408	7873
25	NT2RP2002426	F-NT2RP2002426	2795	R-NT2RP2002426	7874
	NT2RP2002439	F-NT2RP2002439	2796	R-NT2RP2002439	7875
	NT2RP2002442	F-NT2RP2002442	2797		
	NT2RP2002457	F-NT2RP2002457	2798	R-NT2RP2002457	7876
30	NT2RP2002464	F-NT2RP2002464	2799	R-NT2RP2002464	7877
	NT2RP2002475	F-NT2RP2002475	2800	R-NT2RP2002475	7878
	NT2RP2002479	F-NT2RP2002479	2801	R-nnnnnnnnnnnnn	7879
	NT2RP2002498	F-NT2RP2002498	2802	R-NT2RP2002498	7880
35	NT2RP2002503	F-NT2RP2002503	2803	R-NT2RP2002503	7881
	NT2RP2002504	F-NT2RP2002504	2804	R-NT2RP2002504	7882
	NT2RP2002520	F-NT2RP2002520	2805	R-NT2RP2002520	7883
	NT2RP2002537	F-NT2RP2002537	2806	R-NT2RP2002537	7884
40	NT2RP2002546	F-NT2RP2002546	2807	R-NT2RP2002546	7885
	NT2RP2002549	F-NT2RP2002549	2808	R-NT2RP2002549	7886
	NT2RP2002591	F-NT2RP2002591	2809	R-NT2RP2002591	7887
	NT2RP2002595	F-NT2RP2002595	2810	R-NT2RP2002595	7888
	NT2RP2002606	F-NT2RP2002606	2811	R-NT2RP2002606	7889
45	NT2RP2002609	F-NT2RP2002609	2812	R-NT2RP2002609	7890
	NT2RP2002618	F-NT2RP2002618	2813	R-NT2RP2002618	7891
	NT2RP2002621	F-NT2RP2002621	2814	R-NT2RP2002621	7892
	NT2RP2002643	F-NT2RP2002643	2815	R-NT2RP2002643	7893
50	NT2RP2002672	F-NT2RP2002672	2816	R-NT2RP2002672	7894
	NT2RP2002701	F-NT2RP2002701	2817	R-NT2RP2002701	7895
	NT2RP2002706	F-NT2RP2002706	2818	R-NT2RP2002706	7896
	NT2RP2002710	F-NT2RP2002710	2819	R-NT2RP2002710	7897
55	NT2RP2002727	F-NT2RP2002727	2820	R-NT2RP2002727	7898
	NT2RP2002736	F-NT2RP2002736	2821	R-NT2RP2002736	7899

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	NT2RP2002741	F-NT2RP2002741	2823	R-NT2RP2002741	7901
	NT2RP2002750	F-NT2RP2002750	2824	R-NT2RP2002750	7902
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	NT2RP2002753	F-NT2RP2002753	2826	R-NT2RP2002753	7904
	NT2RP2002769	F-NT2RP2002769	2827	R-NT2RP2002769	7905
	NT2RP2002778	F-NT2RP2002778	2828	R-NT2RP2002778	7906
10	NT2RP2002800	F-NT2RP2002800	2829	R-NT2RP2002800	7907
	NT2RP2002839	F-NT2RP2002839	2830	R-NT2RP2002839	7908
	NT2RP2002857	F-NT2RP2002857	2831	R-NT2RP2002857	7909
	NT2RP2002862	F-NT2RP2002862	2832	R-NT2RP2002862	7910
15	NT2RP2002880	F-NT2RP2002880	2833	R-NT2RP2002880	7911
	NT2RP2002891	F-NT2RP2002891	2834	R-NT2RP2002891	7912
	NT2RP2002925	F-NT2RP2002925	2835	R-NT2RP2002925	7913
	NT2RP2002928	F-NT2RP2002928	2836	R-NT2RP2002928	7914
20	NT2RP2002929	F-NT2RP2002929	2837	R-NT2RP2002929	7915
	NT2RP2002939	F-NT2RP2002939	2838		
	NT2RP2002954	F-NT2RP2002954	2839	R-NT2RP2002954	7916
	NT2RP2002959	F-NT2RP2002959	2840	R-NT2RP2002959	7917
25	NT2RP2002979	F-NT2RP2002979	2841	R-NT2RP2002979	7918
	NT2RP2002980	F-NT2RP2002980	2842	R-NT2RP2002980	7919
	NT2RP2002986	F-NT2RP2002986	2843	R-NT2RP2002986	7920
	NT2RP2002987	F-NT2RP2002987	2844	R-NT2RP2002987	7921
30	NT2RP2002993	F-NT2RP2002993	2845	R-NT2RP2002993	7922
	NT2RP2003000	F-NT2RP2003000	2846	R-NT2RP2003000	7923
	NT2RP2003034	F-NT2RP2003034	2847	R-NT2RP2003034	7924
	NT2RP2003073	F-NT2RP2003073	2848	R-NT2RP2003073	7925
	NT2RP2003099	F-NT2RP2003099	2849	R-NT2RP2003099	7926
35	NT2RP2003108	F-NT2RP2003108	2850	R-NT2RP2003108	7927
	NT2RP2003117	F-NT2RP2003117	2851	R-NT2RP2003117	7928
	NT2RP2003121	F-NT2RP2003121	2852	R-NT2RP2003121	7929
	NT2RP2003125	F-NT2RP2003125	2853	R-NT2RP2003125	7930
40	NT2RP2003129	F-NT2RP2003129	2854	R-NT2RP2003129	7931
	NT2RP2003137	F-NT2RP2003137	2855	R-NT2RP2003137	7932
	NT2RP2003157	F-NT2RP2003157	2856		
	NT2RP2003158	F-NT2RP2003158	2857		
45	NT2RP2003161	F-NT2RP2003161	2858	R-NT2RP2003161	7933
	NT2RP2003164	F-NT2RP2003164	2859	R-NT2RP2003164	7934
	NT2RP2003165	F-NT2RP2003165	2860	R-NT2RP2003165	7935
	NT2RP2003177	F-NT2RP2003177	2861	R-NT2RP2003177	7936
50	NT2RP2003194	F-NT2RP2003194	2862	R-NT2RP2003194	7937
	NT2RP2003206	F-NT2RP2003206	2863	R-NT2RP2003206	7938
	NT2RP2003228	F-NT2RP2003228	2864		
	NT2RP2003230	F-NT2RP2003230	2865	R-NT2RP2003230	7939
55	NT2RP2003237	F-NT2RP2003237	2866	R-NT2RP2003237	7940
	NT2RP2003243	F-NT2RP2003243	2867	R-NT2RP2003243	7941

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	NT2RP2003265	F-NT2RP2003265	2868	R-NT2RP2003265	7942
	NT2RP2003272	F-NT2RP2003272	2869	R-NT2RP2003272	7943
	NT2RP2003277	F-NT2RP2003277	2870	R-NT2RP2003277	7944
5	NT2RP2003280	F-NT2RP2003280	2871	R-NT2RP2003280	7945
	NT2RP2003286	F-NT2RP2003286	2872	R-NT2RP2003286	7946
	NT2RP2003293	F-NT2RP2003293	2873	R-NT2RP2003293	7947
	NT2RP2003295	F-NT2RP2003295	2874	R-NT2RP2003295	7948
10	NT2RP2003297	F-NT2RP2003297	2875	R-NT2RP2003297	7949
	NT2RP2003307	F-NT2RP2003307	2876		
	NT2RP2003308	F-NT2RP2003308	2877	R-NT2RP2003308	7950
	NT2RP2003329	F-NT2RP2003329	2878	R-NT2RP2003329	7951
15	NT2RP2003339	F-NT2RP2003339	2879	R-NT2RP2003339	7952
	NT2RP2003347	F-NT2RP2003347	2880	R-NT2RP2003347	7953
	NT2RP2003367	F-NT2RP2003367	2881	R-NT2RP2003367	7954
	NT2RP2003391	F-NT2RP2003391	2882	R-NT2RP2003391	7955
20	NT2RP2003393	F-NT2RP2003393	2883	R-NT2RP2003393	7956
	NT2RP2003394	F-NT2RP2003394	2884	R-NT2RP2003394	7957
	NT2RP2003401	F-NT2RP2003401	2885	R-NT2RP2003401	7958
	NT2RP2003433	F-NT2RP2003433	2886	R-NT2RP2003433	7959
25	NT2RP2003445	F-NT2RP2003445	2887	R-NT2RP2003445	7960
	NT2RP2003446	F-NT2RP2003446	2888	R-NT2RP2003446	7961
	NT2RP2003456	F-NT2RP2003456	2889	R-NT2RP2003456	7962
	NT2RP2003466	F-NT2RP2003466	2890		
30	NT2RP2003480	F-NT2RP2003480	2891	R-NT2RP2003480	7963
	NT2RP2003499	F-NT2RP2003499	2892	R-NT2RP2003499	7964
	NT2RP2003506	F-NT2RP2003506	2893	R-NT2RP2003506	7965
	NT2RP2003511	F-NT2RP2003511	2894	R-NT2RP2003511	7966
	NT2RP2003513	F-NT2RP2003513	2895	R-NT2RP2003513	7967
35	NT2RP2003517	F-NT2RP2003517	2896	R-NT2RP2003517	7968
	NT2RP2003522	F-NT2RP2003522	2897	R-NT2RP2003522	7969
	NT2RP2003533	F-NT2RP2003533	2898	R-NT2RP2003533	7970
	NT2RP2003543	F-NT2RP2003543	2899	R-NT2RP2003543	7971
40	NT2RP2003559	F-NT2RP2003559	2900	R-NT2RP2003559	7972
	NT2RP2003564	F-NT2RP2003564	2901	R-NT2RP2003564	7973
	NT2RP2003567	F-NT2RP2003567	2902		
	NT2RP2003581	F-NT2RP2003581	2903	R-NT2RP2003581	7974
45	NT2RP2003596	F-NT2RP2003596	2904	R-NT2RP2003596	7975
	NT2RP2003604	F-NT2RP2003604	2905	R-NT2RP2003604	7976
	NT2RP2003629	F-NT2RP2003629	2906	R-NT2RP2003629	7977
	NT2RP2003643	F-NT2RP2003643	2907	R-NT2RP2003643	7978
50	NT2RP2003668	F-NT2RP2003668	2908	R-NT2RP2003668	7979
	NT2RP2003687	F-NT2RP2003687	2909	R-NT2RP2003687	7980
	NT2RP2003691	F-NT2RP2003691	2910	R-NT2RP2003691	7981
	NT2RP2003702	F-NT2RP2003702	2911	R-NT2RP2003702	7982
55	NT2RP2003704	F-NT2RP2003704	2912	R-NT2RP2003704	7983
	NT2RP2003706	F-NT2RP2003706	2913	R-NT2RP2003706	7984

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	NT2RP2003713	F-NT2RP2003713	2914	R-NT2RP2003713	7985
	NT2RP2003714	F-NT2RP2003714	2915	R-NT2RP2003714	7986
	NT2RP2003727	F-NT2RP2003727	2916	R-ntntntntntntntntntntnt	7987
5	NT2RP2003737	F-NT2RP2003737	2917	R-NT2RP2003737	7988
	NT2RP2003751	F-NT2RP2003751	2918	R-NT2RP2003751	7989
	NT2RP2003760	F-NT2RP2003760	2919	R-NT2RP2003760	7990
	NT2RP2003764	F-NT2RP2003764	2920	R-NT2RP2003764	7991
10	NT2RP2003769	F-NT2RP2003769	2921	R-NT2RP2003769	7992
	NT2RP2003770	F-NT2RP2003770	2922	R-NT2RP2003770	7993
	NT2RP2003777	F-NT2RP2003777	2923	R-NT2RP2003777	7994
	NT2RP2003781	F-NT2RP2003781	2924	R-NT2RP2003781	7995
15	NT2RP2003793	F-NT2RP2003793	2925	R-NT2RP2003793	7996
	NT2RP2003825	F-NT2RP2003825	2926		
	NT2RP2003840	F-NT2RP2003840	2927	R-NT2RP2003840	7997
	NT2RP2003857	F-NT2RP2003857	2928	R-NT2RP2003857	7998
20	NT2RP2003859	F-NT2RP2003859	2929	R-NT2RP2003859	7999
	NT2RP2003871	F-NT2RP2003871	2930	R-NT2RP2003871	8000
	NT2RP2003885	F-NT2RP2003885	2931	R-NT2RP2003885	8001
	NT2RP2003912	F-NT2RP2003912	2932	R-NT2RP2003912	8002
25	NT2RP2003952	F-NT2RP2003952	2933	R-NT2RP2003952	8003
	NT2RP2003968	F-NT2RP2003968	2934	R-NT2RP2003968	8004
	NT2RP2003976	F-NT2RP2003976	2935	R-NT2RP2003976	8005
	NT2RP2003981	F-NT2RP2003981	2936	R-NT2RP2003981	8006
30	NT2RP2003984	F-NT2RP2003984	2937	R-NT2RP2003984	8007
	NT2RP2003986	F-NT2RP2003986	2938	R-NT2RP2003986	8008
	NT2RP2003988	F-NT2RP2003988	2939	R-NT2RP2003988	8009
	NT2RP2004013	F-NT2RP2004013	2940		
	NT2RP2004014	F-NT2RP2004014	2941	R-NT2RP2004014	8010
35	NT2RP2004041	F-NT2RP2004041	2942	R-NT2RP2004041	8011
	NT2RP2004042	F-NT2RP2004042	2943	R-NT2RP2004042	8012
	NT2RP2004066	F-NT2RP2004066	2944	R-ntntntntntntntntntntnt	8013
	NT2RP2004081	F-NT2RP2004081	2945	R-NT2RP2004081	8014
40	NT2RP2004098	F-NT2RP2004098	2946	R-NT2RP2004098	8015
	NT2RP2004124	F-NT2RP2004124	2947	R-NT2RP2004124	8016
	NT2RP2004142	F-NT2RP2004142	2948	R-NT2RP2004142	8017
	NT2RP2004152	F-NT2RP2004152	2949	R-NT2RP2004152	8018
45	NT2RP2004165	F-NT2RP2004165	2950	R-NT2RP2004165	8019
	NT2RP2004170	F-NT2RP2004170	2951	R-NT2RP2004170	8020
	NT2RP2004172	F-NT2RP2004172	2952	R-NT2RP2004172	8021
	NT2RP2004187	F-NT2RP2004187	2953	R-NT2RP2004187	8022
50	NT2RP2004194	F-NT2RP2004194	2954	R-NT2RP2004194	8023
	NT2RP2004196	F-NT2RP2004196	2955	R-NT2RP2004196	8024
	NT2RP2004207	F-NT2RP2004207	2956	R-NT2RP2004207	8025
	NT2RP2004226	F-NT2RP2004226	2957	R-NT2RP2004226	8026
55	NT2RP2004232	F-NT2RP2004232	2958	R-NT2RP2004232	8027
	NT2RP2004239	F-NT2RP2004239	2959	R-NT2RP2004239	8028

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	NT2RP2004240	F-NT2RP2004240	2960	R-NT2RP2004240	8029
	NT2RP2004242	F-NT2RP2004242	2961	R-NT2RP2004242	8030
	NT2RP2004245	F-NT2RP2004245	2962	R-NT2RP2004245	8031
5	NT2RP2004270	F-NT2RP2004270	2963	R-NT2RP2004270	8032
	NT2RP2004300	F-NT2RP2004300	2964	R-NT2RP2004300	8033
	NT2RP2004316	F-NT2RP2004316	2965	R-NT2RP2004316	8034
	NT2RP2004321	F-NT2RP2004321	2966	R-NT2RP2004321	8035
10	NT2RP2004339	F-NT2RP2004339	2967	R-NT2RP2004339	8036
	NT2RP2004347	F-NT2RP2004347	2968	R-NT2RP2004347	8037
	NT2RP2004364	F-NT2RP2004364	2969	R-NT2RP2004364	8038
	NT2RP2004365	F-NT2RP2004365	2970	R-NT2RP2004365	8039
15	NT2RP2004366	F-NT2RP2004366	2971	R-NT2RP2004366	8040
	NT2RP2004373	F-NT2RP2004373	2972	R-NT2RP2004373	8041
	NT2RP2004389	F-NT2RP2004389	2973	R-NT2RP2004389	8042
	NT2RP2004392	F-NT2RP2004392	2974	R-NT2RP2004392	8043
20	NT2RP2004396	F-NT2RP2004396	2975	R-NT2RP2004396	8044
	NT2RP2004399	F-NT2RP2004399	2976	R-NT2RP2004399	8045
	NT2RP2004400	F-NT2RP2004400	2977	R-NT2RP2004400	8046
	NT2RP2004412	F-NT2RP2004412	2978	R-NT2RP2004412	8047
25	NT2RP2004425	F-NT2RP2004425	2979	R-NT2RP2004425	8048
	NT2RP2004463	F-NT2RP2004463	2980		
	NT2RP2004476	F-NT2RP2004476	2981	R-NT2RP2004476	8049
	NT2RP2004490	F-NT2RP2004490	2982	R-NT2RP2004490	8050
30	NT2RP2004512	F-NT2RP2004512	2983	R-NT2RP2004512	8051
	NT2RP2004523	F-NT2RP2004523	2984	R-NT2RP2004523	8052
	NT2RP2004538	F-NT2RP2004538	2985	R-NT2RP2004538	8053
	NT2RP2004551	F-NT2RP2004551	2986	R-NT2RP2004551	8054
35	NT2RP2004568	F-NT2RP2004568	2987	R-NT2RP2004568	8055
	NT2RP2004580	F-NT2RP2004580	2988	R-NT2RP2004580	8056
	NT2RP2004587	F-NT2RP2004587	2989	R-NT2RP2004587	8057
	NT2RP2004594	F-NT2RP2004594	2990	R-NT2RP2004594	8058
40	NT2RP2004600	F-NT2RP2004600	2991	R-NT2RP2004600	8059
	NT2RP2004602	F-NT2RP2004602	2992	R-NT2RP2004602	8060
	NT2RP2004614	F-NT2RP2004614	2993	R-NT2RP2004614	8061
	NT2RP2004655	F-NT2RP2004655	2994	R-NT2RP2004655	8062
45	NT2RP2004664	F-NT2RP2004664	2995	R-NT2RP2004664	8063
	NT2RP2004675	F-NT2RP2004675	2996	R-NT2RP2004675	8064
	NT2RP2004681	F-NT2RP2004681	2997	R-NT2RP2004681	8065
	NT2RP2004689	F-NT2RP2004689	2998	R-NT2RP2004689	8066
	NT2RP2004709	F-NT2RP2004709	2999	R-NT2RP2004709	8067
50	NT2RP2004710	F-NT2RP2004710	3000	R-NT2RP2004710	8068
	NT2RP2004736	F-NT2RP2004736	3001	R-NT2RP2004736	8069
	NT2RP2004743	F-NT2RP2004743	3002	R-NT2RP2004743	8070
	NT2RP2004767	F-NT2RP2004767	3003	R-NT2RP2004767	8071
55	NT2RP2004768	F-NT2RP2004768	3004		
	NT2RP2004775	F-NT2RP2004775	3005	R-NT2RP2004775	8072

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	NT2RP2004791	F-NT2RP2004791	3006	R-NT2RP2004791	8073
	NT2RP2004799	F-NT2RP2004799	3007	R-NT2RP2004799	8074
	NT2RP2004802	F-NT2RP2004802	3008	R-NT2RP2004802	8075
5	NT2RP2004816	F-NT2RP2004816	3009	R-NT2RP2004816	8076
	NT2RP2004841	F-NT2RP2004841	3010	R-NT2RP2004841	8077
	NT2RP2004861	F-NT2RP2004861	3011	R-NT2RP2004861	8078
	NT2RP2004897	F-NT2RP2004897	3012	R-NT2RP2004897	8079
10	NT2RP2004933	F-NT2RP2004933	3013		
	NT2RP2004936	F-NT2RP2004936	3014	R-NT2RP2004936	8080
	NT2RP2004959	F-NT2RP2004959	3015	R-ntntntntntntntntntntnt	8081
	NT2RP2004961	F-NT2RP2004961	3016	R-NT2RP2004961	8082
15	NT2RP2004962	F-NT2RP2004962	3017	R-NT2RP2004962	8083
	NT2RP2004967	F-NT2RP2004967	3018	R-NT2RP2004967	8084
	NT2RP2004978	F-NT2RP2004978	3019	R-NT2RP2004978	8085
	NT2RP2004982	F-NT2RP2004982	3020	R-NT2RP2004982	8086
20	NT2RP2004985	F-NT2RP2004985	3021	R-NT2RP2004985	8087
	NT2RP2004999	F-NT2RP2004999	3022	R-NT2RP2004999	8088
	NT2RP2005000	F-NT2RP2005000	3023	R-NT2RP2005000	8089
	NT2RP2005001	F-NT2RP2005001	3024	R-NT2RP2005001	8090
	NT2RP2005003	F-NT2RP2005003	3025	R-NT2RP2005003	8091
25	NT2RP2005012	F-NT2RP2005012	3026	R-ntntntntntntntntntntnt	8092
	NT2RP2005018	F-NT2RP2005018	3027	R-NT2RP2005018	8093
	NT2RP2005020	F-NT2RP2005020	3028	R-NT2RP2005020	8094
	NT2RP2005022	F-NT2RP2005022	3029		
30	NT2RP2005031	F-NT2RP2005031	3030	R-NT2RP2005031	8095
	NT2RP2005037	F-NT2RP2005037	3031	R-NT2RP2005037	8096
	NT2RP2005038	F-NT2RP2005038	3032	R-NT2RP2005038	8097
	NT2RP2005108	F-NT2RP2005108	3033	R-NT2RP2005108	8098
35	NT2RP2005116	F-NT2RP2005116	3034	R-NT2RP2005116	8099
	NT2RP2005126	F-NT2RP2005126	3035	R-NT2RP2005126	8100
	NT2RP2005139	F-NT2RP2005139	3036	R-NT2RP2005139	8101
	NT2RP2005140	F-NT2RP2005140	3037	R-NT2RP2005140	8102
40	NT2RP2005144	F-NT2RP2005144	3038	R-NT2RP2005144	8103
	NT2RP2005147	F-NT2RP2005147	3039	R-NT2RP2005147	8104
	NT2RP2005159	F-NT2RP2005159	3040	R-NT2RP2005159	8105
	NT2RP2005162	F-NT2RP2005162	3041	R-NT2RP2005162	8106
45	NT2RP2005168	F-NT2RP2005168	3042	R-NT2RP2005168	8107
	NT2RP2005204	F-NT2RP2005204	3043	R-NT2RP2005204	8108
	NT2RP2005227	F-NT2RP2005227	3044	R-NT2RP2005227	8109
	NT2RP2005239	F-NT2RP2005239	3045	R-NT2RP2005239	8110
50	NT2RP2005254	F-NT2RP2005254	3046	R-NT2RP2005254	8111
	NT2RP2005270	F-NT2RP2005270	3047	R-NT2RP2005270	8112
	NT2RP2005276	F-NT2RP2005276	3048	R-NT2RP2005276	8113
	NT2RP2005287	F-NT2RP2005287	3049	R-NT2RP2005287	8114
55	NT2RP2005288	F-NT2RP2005288	3050	R-NT2RP2005288	8115
	NT2RP2005289	F-NT2RP2005289	3051	R-NT2RP2005289	8116

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	NT2RP2005293	F-NT2RP2005293	3052	R-NT2RP2005293	8117
	NT2RP2005315	F-NT2RP2005315	3053	R-NT2RP2005315	8118
	NT2RP2005325	F-NT2RP2005325	3054	R-NT2RP2005325	8119
5	NT2RP2005336	F-NT2RP2005336	3055	R-NT2RP2005336	8120
	NT2RP2005344	F-NT2RP2005344	3056	R-NT2RP2005344	8121
	NT2RP2005354	F-NT2RP2005354	3057	R-NT2RP2005354	8122
	NT2RP2005358	F-NT2RP2005358	3058		
10	NT2RP2005360	F-NT2RP2005360	3059	R-NT2RP2005360	8123
	NT2RP2005393	F-NT2RP2005393	3060	R-NT2RP2005393	8124
	NT2RP2005407	F-NT2RP2005407	3061	R-NT2RP2005407	8125
	NT2RP2005436	F-NT2RP2005436	3062	R-NT2RP2005436	8126
15	NT2RP2005441	F-NT2RP2005441	3063	R-NT2RP2005441	8127
	NT2RP2005453	F-NT2RP2005453	3064	R-NT2RP2005453	8128
	NT2RP2005457	F-NT2RP2005457	3065	R-NT2RP2005457	8129
	NT2RP2005464	F-NT2RP2005464	3066	R-NT2RP2005464	8130
20	NT2RP2005465	F-NT2RP2005465	3067	R-NT2RP2005465	8131
	NT2RP2005472	F-NT2RP2005472	3068	R-NT2RP2005472	8132
	NT2RP2005476	F-NT2RP2005476	3069	R-NT2RP2005476	8133
	NT2RP2005490	F-NT2RP2005490	3070	R-NT2RP2005490	8134
25	NT2RP2005491	F-NT2RP2005491	3071	R-NT2RP2005491	8135
	NT2RP2005495	F-NT2RP2005495	3072	R-NT2RP2005495	8136
	NT2RP2005496	F-NT2RP2005496	3073	R-NT2RP2005496	8137
	NT2RP2005498	F-NT2RP2005498	3074	R-NT2RP2005498	8138
30	NT2RP2005501	F-NT2RP2005501	3075	R-NT2RP2005501	8139
	NT2RP2005509	F-NT2RP2005509	3076	R-NT2RP2005509	8140
	NT2RP2005520	F-NT2RP2005520	3077	R-NT2RP2005520	8141
	NT2RP2005525	F-NT2RP2005525	3078	R-NT2RP2005525	8142
35	NT2RP2005531	F-NT2RP2005531	3079	R-NT2RP2005531	8143
	NT2RP2005539	F-NT2RP2005539	3080	R-NT2RP2005539	8144
	NT2RP2005540	F-NT2RP2005540	3081	R-NT2RP2005540	8145
	NT2RP2005549	F-NT2RP2005549	3082	R-NT2RP2005549	8146
	NT2RP2005555	F-NT2RP2005555	3083	R-NT2RP2005555	8147
40	NT2RP2005557	F-NT2RP2005557	3084	R-NT2RP2005557	8148
	NT2RP2005581	F-NT2RP2005581	3085	R-NT2RP2005581	8149
	NT2RP2005600	F-NT2RP2005600	3086	R-NT2RP2005600	8150
	NT2RP2005605	F-NT2RP2005605	3087	R-NT2RP2005605	8151
45	NT2RP2005620	F-NT2RP2005620	3088	R-NT2RP2005620	8152
	NT2RP2005622	F-NT2RP2005622	3089	R-NT2RP2005622	8153
	NT2RP2005635	F-NT2RP2005635	3090		
	NT2RP2005637	F-NT2RP2005637	3091	R-NT2RP2005637	8154
50	NT2RP2005640	F-NT2RP2005640	3092	R-NT2RP2005640	8155
	NT2RP2005645	F-NT2RP2005645	3093	R-NT2RP2005645	8156
	NT2RP2005651	F-NT2RP2005651	3094	R-NT2RP2005651	8157
	NT2RP2005654	F-NT2RP2005654	3095	R-NT2RP2005654	8158
55	NT2RP2005669	F-NT2RP2005669	3096	R-NT2RP2005669	8159
	NT2RP2005675	F-NT2RP2005675	3097	R-NT2RP2005675	8160

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	NT2RP2005683	F-NT2RP2005683	3098	R-NT2RP2005683	8161
	NT2RP2005690	F-NT2RP2005690	3099	R-NT2RP2005690	8162
	NT2RP2005694	F-NT2RP2005694	3100	R-NT2RP2005694	8163
5	NT2RP2005701	F-NT2RP2005701	3101	R-NT2RP2005701	8164
	NT2RP2005712	F-NT2RP2005712	3102	R-NT2RP2005712	8165
	NT2RP2005719	F-NT2RP2005719	3103	R-NT2RP2005719	8166
	NT2RP2005722	F-NT2RP2005722	3104	R-NT2RP2005722	8167
10	NT2RP2005723	F-NT2RP2005723	3105	R-NT2RP2005723	8168
	NT2RP2005726	F-NT2RP2005726	3106	R-NT2RP2005726	8169
	NT2RP2005732	F-NT2RP2005732	3107		
	NT2RP2005741	F-NT2RP2005741	3108	R-NT2RP2005741	8170
15	NT2RP2005748	F-NT2RP2005748	3109	R-NT2RP2005748	8171
	NT2RP2005752	F-NT2RP2005752	3110	R-NT2RP2005752	8172
	NT2RP2005753	F-NT2RP2005753	3111	R-NT2RP2005753	8173
	NT2RP2005763	F-NT2RP2005763	3112	R-NT2RP2005763	8174
20	NT2RP2005767	F-NT2RP2005767	3113	R-NT2RP2005767	8175
	NT2RP2005773	F-NT2RP2005773	3114	R-NT2RP2005773	8176
	NT2RP2005775	F-NT2RP2005775	3115	R-NT2RP2005775	8177
	NT2RP2005781	F-NT2RP2005781	3116	R-NT2RP2005781	8178
25	NT2RP2005784	F-NT2RP2005784	3117	R-NT2RP2005784	8179
	NT2RP2005804	F-NT2RP2005804	3118	R-NT2RP2005804	8180
	NT2RP2005812	F-NT2RP2005812	3119	R-NT2RP2005812	8181
	NT2RP2005815	F-NT2RP2005815	3120	R-NT2RP2005815	8182
30	NT2RP2005835	F-NT2RP2005835	3121	R-NT2RP2005835	8183
	NT2RP2005841	F-NT2RP2005841	3122	R-NT2RP2005841	8184
	NT2RP2005853	F-NT2RP2005853	3123	R-NT2RP2005853	8185
	NT2RP2005857	F-NT2RP2005857	3124	R-NT2RP2005857	8186
35	NT2RP2005859	F-NT2RP2005859	3125	R-NT2RP2005859	8187
	NT2RP2005868	F-NT2RP2005868	3126	R-NT2RP2005868	8188
	NT2RP2005886	F-NT2RP2005886	3127		
	NT2RP2005890	F-NT2RP2005890	3128	R-NT2RP2005890	8189
40	NT2RP2005901	F-NT2RP2005901	3129	R-NT2RP2005901	8190
	NT2RP2005908	F-NT2RP2005908	3130	R-NT2RP2005908	8191
	NT2RP2005933	F-NT2RP2005933	3131	R-NT2RP2005933	8192
	NT2RP2005942	F-NT2RP2005942	3132	R-NT2RP2005942	8193
	NT2RP2005980	F-NT2RP2005980	3133	R-NT2RP2005980	8194
45	NT2RP2006023	F-NT2RP2006023	3134	R-NT2RP2006023	8195
	NT2RP2006038	F-NT2RP2006038	3135	R-NT2RP2006038	8196
	NT2RP2006043	F-NT2RP2006043	3136	R-NT2RP2006043	8197
	NT2RP2006052	F-NT2RP2006052	3137	R-NT2RP2006052	8198
50	NT2RP2006069	F-NT2RP2006069	3138	R-NT2RP2006069	8199
	NT2RP2006071	F-NT2RP2006071	3139	R-NT2RP2006071	8200
	NT2RP2006098	F-NT2RP2006098	3140	R-NT2RP2006098	8201
	NT2RP2006100	F-NT2RP2006100	3141	R-NT2RP2006100	8202
55	NT2RP2006103	F-NT2RP2006103	3142	R-NT2RP2006103	8203
	NT2RP2006106	F-NT2RP2006106	3143		

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	NT2RP2006141	F-NT2RP2006141	3144	R-NT2RP2006141	8204
	NT2RP2006166	F-NT2RP2006166	3145	R-NT2RP2006166	8205
	NT2RP2006184	F-NT2RP2006184	3146	R-NT2RP2006184	8206
5	NT2RP2006186	F-NT2RP2006186	3147	R-NT2RP2006186	8207
	NT2RP2006196	F-NT2RP2006196	3148	R-NT2RP2006196	8208
	NT2RP2006200	F-NT2RP2006200	3149	R-NT2RP2006200	8209
	NT2RP2006219	F-NT2RP2006219	3150	R-NT2RP2006219	8210
10	NT2RP2006237	F-NT2RP2006237	3151	R-NT2RP2006237	8211
	NT2RP2006238	F-NT2RP2006238	3152	R-NT2RP2006238	8212
	NT2RP2006258	F-NT2RP2006258	3153	R-NT2RP2006258	8213
	NT2RP2006261	F-NT2RP2006261	3154	R-NT2RP2006261	8214
15	NT2RP2006275	F-NT2RP2006275	3155		
	NT2RP2006312	F-NT2RP2006312	3156	R-NT2RP2006312	8215
	NT2RP2006320	F-NT2RP2006320	3157	R-NT2RP2006320	8216
	NT2RP2006321	F-NT2RP2006321	3158	R-NT2RP2006321	8217
20	NT2RP2006323	F-NT2RP2006323	3159	R-NT2RP2006323	8218
	NT2RP2006333	F-NT2RP2006333	3160	R-NT2RP2006333	8219
	NT2RP2006334	F-NT2RP2006334	3161	R-NT2RP2006334	8220
	NT2RP2006365	F-NT2RP2006365	3162	R-NT2RP2006365	8221
25	NT2RP2006393	F-NT2RP2006393	3163	R-NT2RP2006393	8222
	NT2RP2006436	F-NT2RP2006436	3164	R-NT2RP2006436	8223
	NT2RP2006441	F-NT2RP2006441	3165	R-NT2RP2006441	8224
	NT2RP2006454	F-NT2RP2006454	3166	R-NT2RP2006454	8225
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	NT2RP2006464	F-NT2RP2006464	3168	R-NT2RP2006464	8227
	NT2RP2006467	F-NT2RP2006467	3169	R-NT2RP2006467	8228
	NT2RP2006472	F-NT2RP2006472	3170	R-NT2RP2006472	8229
35	NT2RP2006534	F-NT2RP2006534	3171	R-NT2RP2006534	8230
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	NT2RP2006565	F-NT2RP2006565	3173	R-NT2RP2006565	8232
	NT2RP2006571	F-NT2RP2006571	3174	R-NT2RP2006571	8233
40	NT2RP2006573	F-NT2RP2006573	3175	R-nnnnnnnnnnnn	8234
	NT2RP2006598	F-NT2RP2006598	3176	R-NT2RP2006598	8235
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	NT2RP3000031	F-NT2RP3000031	3178	R-NT2RP3000031	8237
45	NT2RP3000046	F-NT2RP3000046	3179	R-NT2RP3000046	8238
	NT2RP3000047	F-NT2RP3000047	3180	R-NT2RP3000047	8239
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	NT2RP3000055	F-NT2RP3000055	3182	R-NT2RP3000055	8241
	NT2RP3000068	F-NT2RP3000068	3183		
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	NT2RP3000080	F-NT2RP3000080	3185	R-NT2RP3000080	8243
	NT2RP3000085	F-NT2RP3000085	3186	R-NT2RP3000085	8244
	NT2RP3000092	F-NT2RP3000092	3187		
55	NT2RP3000109	F-NT2RP3000109	3188	R-NT2RP3000109	8245
	NT2RP3000134	F-NT2RP3000134	3189	R-NT2RP3000134	8246

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	NT2RP3000142	F-NT2RP3000142	3190	R-NT2RP3000142	8247
	NT2RP3000149	F-NT2RP3000149	3191	R-NT2RP3000149	8248
	NT2RP3000186	F-NT2RP3000186	3192	R-NT2RP3000186	8249
5	NT2RP3000197	F-NT2RP3000197	3193	R-NT2RP3000197	8250
	NT2RP3000207	F-NT2RP3000207	3194	R-NT2RP3000207	8251
	NT2RP3000220	F-NT2RP3000220	3195	R-NT2RP3000220	8252
	NT2RP3000233	F-NT2RP3000233	3196	R-NT2RP3000233	8253
10	NT2RP3000235	F-NT2RP3000235	3197	R-NT2RP3000235	8254
	NT2RP3000247	F-NT2RP3000247	3198	R-NT2RP3000247	8255
	NT2RP3000251	F-NT2RP3000251	3199	R-NT2RP3000251	8256
	NT2RP3000252	F-NT2RP3000252	3200	R-NT2RP3000252	8257
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	NT2RP3000267	F-NT2RP3000267	3202	R-NT2RP3000267	8259
	NT2RP3000299	F-NT2RP3000299	3203	R-NT2RP3000299	8260
	NT2RP3000312	F-NT2RP3000312	3204	R-NT2RP3000312	8261
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	NT2RP3000324	F-NT2RP3000324	3206	R-NT2RP3000324	8263
	NT2RP3000333	F-NT2RP3000333	3207	R-NT2RP3000333	8264
	NT2RP3000341	F-NT2RP3000341	3208	R-NT2RP3000341	8265
25	NT2RP3000348	F-NT2RP3000348	3209	R-NT2RP3000348	8266
	NT2RP3000350	F-NT2RP3000350	3210	R-NT2RP3000350	8267
	NT2RP3000359	F-NT2RP3000359	3211	R-NT2RP3000359	8268
	NT2RP3000361	F-NT2RP3000361	3212	R-NT2RP3000361	8269
	NT2RP3000366	F-NT2RP3000366	3213	R-NT2RP3000366	8270
30	NT2RP3000393	F-NT2RP3000393	3214		
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	NT2RP3000403	F-NT2RP3000403	3216	R-NT2RP3000403	8272
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	NT2RP3000441	F-NT2RP3000441	3220	R-NT2RP3000441	8276
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	NT2RP3000456	F-NT2RP3000456	3223	R-NT2RP3000456	8279
	NT2RP3000484	F-NT2RP3000484	3224	R-NT2RP3000484	8280
	NT2RP3000487	F-NT2RP3000487	3225	R-NT2RP3000487	8281
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	NT2RP3000526	F-NT2RP3000526	3227	R-NT2RP3000526	8283
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	NT2RP3000561	F-NT2RP3000561	3231	R-NT2RP3000561	8287
	NT2RP3000562	F-NT2RP3000562	3232	R-NT2RP3000562	8288
	NT2RP3000578	F-NT2RP3000578	3233	R-NT2RP3000578	8289
55	NT2RP3000582	F-NT2RP3000582	3234	R-NT2RP3000582	8290
	NT2RP3000584	F-NT2RP3000584	3235	R-NT2RP3000584	8291

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	NT2RP3000590	F-NT2RP3000590	3236	R-NT2RP3000590	8292
	NT2RP3000592	F-NT2RP3000592	3237	R-NT2RP3000592	8293
	NT2RP3000596	F-NT2RP3000596	3238	R-nnnnnnnnnnnnn	8294
5	NT2RP3000599	F-NT2RP3000599	3239	R-NT2RP3000599	8295
	NT2RP3000603	F-NT2RP3000603	3240		
	NT2RP3000605	F-NT2RP3000605	3241	R-NT2RP3000605	8296
	NT2RP3000622	F-NT2RP3000622	3242	R-NT2RP3000622	8297
10	NT2RP3000624	F-NT2RP3000624	3243	R-NT2RP3000624	8298
	NT2RP3000628	F-NT2RP3000628	3244	R-NT2RP3000628	8299
	NT2RP3000632	F-NT2RP3000632	3245	R-NT2RP3000632	8300
	NT2RP3000644	F-NT2RP3000644	3246	R-NT2RP3000644	8301
15	NT2RP3000661	F-NT2RP3000661	3247	R-NT2RP3000661	8302
	NT2RP3000665	F-NT2RP3000665	3248	R-NT2RP3000665	8303
	NT2RP3000685	F-NT2RP3000685	3249	R-NT2RP3000685	8304
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20	NT2RP3000736	F-NT2RP3000736	3251	R-NT2RP3000736	8306
	NT2RP3000739	F-NT2RP3000739	3252		
	NT2RP3000742	F-NT2RP3000742	3253	R-NT2RP3000742	8307
	NT2RP3000753	F-NT2RP3000753	3254	R-NT2RP3000753	8308
	NT2RP3000759	F-NT2RP3000759	3255	R-NT2RP3000759	8309
25	NT2RP3000815	F-NT2RP3000815	3256	R-NT2RP3000815	8310
	NT2RP3000825	F-NT2RP3000825	3257	R-NT2RP3000825	8311
	NT2RP3000826	F-NT2RP3000826	3258	R-NT2RP3000826	8312
	NT2RP3000836	F-NT2RP3000836	3259	R-NT2RP3000836	8313
30	NT2RP3000841	F-NT2RP3000841	3260	R-NT2RP3000841	8314
	NT2RP3000845	F-NT2RP3000845	3261	R-NT2RP3000845	8315
	NT2RP3000847	F-NT2RP3000847	3262	R-NT2RP3000847	8316
	NT2RP3000850	F-NT2RP3000850	3263	R-NT2RP3000850	8317
35	NT2RP3000852	F-NT2RP3000852	3264	R-NT2RP3000852	8318
	NT2RP3000859	F-NT2RP3000859	3265	R-NT2RP3000859	8319
	NT2RP3000865	F-NT2RP3000865	3266	R-NT2RP3000865	8320
	NT2RP3000868	F-NT2RP3000868	3267	R-NT2RP3000868	8321
40	NT2RP3000869	F-NT2RP3000869	3268	R-NT2RP3000869	8322
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	NT2RP3000901	F-NT2RP3000901	3270	R-NT2RP3000901	8324
	NT2RP3000904	F-NT2RP3000904	3271	R-NT2RP3000904	8325
45	NT2RP3000917	F-NT2RP3000917	3272	R-NT2RP3000917	8326
	NT2RP3000919	F-NT2RP3000919	3273	R-NT2RP3000919	8327
	NT2RP3000968	F-NT2RP3000968	3274	R-NT2RP3000968	8328
	NT2RP3000980	F-NT2RP3000980	3275	R-NT2RP3000980	8329
50	NT2RP3000994	F-NT2RP3000994	3276	R-NT2RP3000994	8330
	NT2RP3001004	F-NT2RP3001004	3277	R-NT2RP3001004	8331
	NT2RP3001007	F-NT2RP3001007	3278	R-NT2RP3001007	8332
	NT2RP3001055	F-NT2RP3001055	3279	R-NT2RP3001055	8333
	NT2RP3001057	F-NT2RP3001057	3280	R-NT2RP3001057	8334
55	NT2RP3001081	F-NT2RP3001081	3281	R-NT2RP3001081	8335

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	NT2RP3001084	F-NT2RP3001084	3282	R-NT2RP3001084	8336
	NT2RP3001096	F-NT2RP3001096	3283	R-NT2RP3001096	8337
	NT2RP3001107	F-NT2RP3001107	3284	R-NT2RP3001107	8338
5	NT2RP3001109	F-NT2RP3001109	3285	R-nnnnnnnnnnnnn	8339
	NT2RP3001111	F-NT2RP3001111	3286	R-NT2RP3001111	8340
	NT2RP3001113	F-NT2RP3001113	3287	R-NT2RP3001113	8341
	NT2RP3001115	F-NT2RP3001115	3288	R-NT2RP3001115	8342
10	NT2RP3001116	F-NT2RP3001116	3289	R-NT2RP3001116	8343
	NT2RP3001119	F-NT2RP3001119	3290	R-NT2RP3001119	8344
	NT2RP3001120	F-NT2RP3001120	3291	R-NT2RP3001120	8345
	NT2RP3001126	F-NT2RP3001126	3292	R-NT2RP3001126	8346
15	NT2RP3001133	F-NT2RP3001133	3293	R-NT2RP3001133	8347
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	NT2RP3001147	F-NT2RP3001147	3295	R-NT2RP3001147	8349
	NT2RP3001150	F-NT2RP3001150	3296	R-NT2RP3001150	8350
20	NT2RP3001155	F-NT2RP3001155	3297	R-NT2RP3001155	8351
	NT2RP3001176	F-NT2RP3001176	3298	R-NT2RP3001176	8352
	NT2RP3001214	F-NT2RP3001214	3299	R-NT2RP3001214	8353
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25	NT2RP3001221	F-NT2RP3001221	3301	R-NT2RP3001221	8355
	NT2RP3001232	F-NT2RP3001232	3302	R-NT2RP3001232	8356
	NT2RP3001236	F-NT2RP3001236	3303	R-NT2RP3001236	8357
	NT2RP3001239	F-NT2RP3001239	3304	R-NT2RP3001239	8358
	NT2RP3001245	F-NT2RP3001245	3305	R-NT2RP3001245	8359
30	NT2RP3001253	F-NT2RP3001253	3306	R-NT2RP3001253	8360
	NT2RP3001260	F-NT2RP3001260	3307	R-NT2RP3001260	8361
	NT2RP3001268	F-NT2RP3001268	3308	R-NT2RP3001268	8362
	NT2RP3001272	F-NT2RP3001272	3309	R-NT2RP3001272	8363
35	NT2RP3001274	F-NT2RP3001274	3310	R-NT2RP3001274	8364
	NT2RP3001281	F-NT2RP3001281	3311	R-NT2RP3001281	8365
	NT2RP3001297	F-NT2RP3001297	3312		
	NT2RP3001307	F-NT2RP3001307	3313	R-NT2RP3001307	8366
40	NT2RP3001318	F-NT2RP3001318	3314	R-NT2RP3001318	8367
	NT2RP3001325	F-NT2RP3001325	3315	R-NT2RP3001325	8368
	NT2RP3001338	F-NT2RP3001338	3316	R-NT2RP3001338	8369
	NT2RP3001339	F-NT2RP3001339	3317	R-NT2RP3001339	8370
45	NT2RP3001340	F-NT2RP3001340	3318	R-NT2RP3001340	8371
	NT2RP3001355	F-NT2RP3001355	3319	R-NT2RP3001355	8372
	NT2RP3001356	F-NT2RP3001356	3320		
	NT2RP3001374	F-NT2RP3001374	3321	R-NT2RP3001374	8373
50	NT2RP3001383	F-NT2RP3001383	3322	R-NT2RP3001383	8374
	NT2RP3001384	F-NT2RP3001384	3323	R-NT2RP3001384	8375
	NT2RP3001392	F-NT2RP3001392	3324	R-NT2RP3001392	8376
	NT2RP3001396	F-NT2RP3001396	3325	R-NT2RP3001396	8377
55	NT2RP3001398	F-NT2RP3001398	3326	R-NT2RP3001398	8378
	NT2RP3001399	F-NT2RP3001399	3327	R-NT2RP3001399	8379

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	NT2RP3001407	F-NT2RP3001407	3328	R-NT2RP3001407	8380
	NT2RP3001420	F-NT2RP3001420	3329	R-NT2RP3001420	8381
	NT2RP3001426	F-NT2RP3001426	3330	R-NT2RP3001426	8382
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	NT2RP3001428	F-NT2RP3001428	3332	R-ntntntntntntntntntnt	8384
	NT2RP3001432	F-NT2RP3001432	3333	R-NT2RP3001432	8385
	NT2RP3001447	F-NT2RP3001447	3334	R-NT2RP3001447	8386
10	NT2RP3001449	F-NT2RP3001449	3335	R-NT2RP3001449	8387
	NT2RP3001453	F-NT2RP3001453	3336	R-NT2RP3001453	8388
	NT2RP3001457	F-NT2RP3001457	3337	R-NT2RP3001457	8389
	NT2RP3001459	F-NT2RP3001459	3338	R-NT2RP3001459	8390
15	NT2RP3001472	F-NT2RP3001472	3339	R-NT2RP3001472	8391
	NT2RP3001490	F-NT2RP3001490	3340	R-NT2RP3001490	8392
	NT2RP3001495	F-NT2RP3001495	3341	R-NT2RP3001495	8393
	NT2RP3001497	F-NT2RP3001497	3342	R-NT2RP3001497	8394
20	NT2RP3001527	F-NT2RP3001527	3343	R-NT2RP3001527	8395
	NT2RP3001529	F-NT2RP3001529	3344	R-NT2RP3001529	8396
	NT2RP3001538	F-NT2RP3001538	3345	R-NT2RP3001538	8397
	NT2RP3001554	F-NT2RP3001554	3346	R-NT2RP3001554	8398
25	NT2RP3001580	F-NT2RP3001580	3347	R-NT2RP3001580	8399
	NT2RP3001587	F-NT2RP3001587	3348	R-NT2RP3001587	8400
	NT2RP3001589	F-NT2RP3001589	3349	R-NT2RP3001589	8401
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30	NT2RP3001608	F-NT2RP3001608	3351	R-NT2RP3001608	8403
	NT2RP3001621	F-NT2RP3001621	3352	R-NT2RP3001621	8404
	NT2RP3001629	F-NT2RP3001629	3353	R-NT2RP3001629	8405
	NT2RP3001634	F-NT2RP3001634	3354	R-NT2RP3001634	8406
	NT2RP3001642	F-NT2RP3001642	3355	R-NT2RP3001642	8407
35	NT2RP3001646	F-NT2RP3001646	3356	R-NT2RP3001646	8408
	NT2RP3001671	F-NT2RP3001671	3357	R-NT2RP3001671	8409
	NT2RP3001672	F-NT2RP3001672	3358	R-NT2RP3001672	8410
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40	NT2RP3001678	F-NT2RP3001678	3360	R-NT2RP3001678	8412
	NT2RP3001679	F-NT2RP3001679	3361	R-NT2RP3001679	8413
	NT2RP3001688	F-NT2RP3001688	3362	R-NT2RP3001688	8414
	NT2RP3001690	F-NT2RP3001690	3363	R-NT2RP3001690	8415
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	NT2RP3001712	F-NT2RP3001712	3366	R-NT2RP3001712	8417
	NT2RP3001716	F-NT2RP3001716	3367	R-NT2RP3001716	8418
50	NT2RP3001724	F-NT2RP3001724	3368	R-NT2RP3001724	8419
	NT2RP3001727	F-NT2RP3001727	3369		
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	NT2RP3001739	F-NT2RP3001739	3371	R-NT2RP3001739	8421
55	NT2RP3001752	F-NT2RP3001752	3372	R-NT2RP3001752	8422
	NT2RP3001753	F-NT2RP3001753	3373	R-NT2RP3001753	8423

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NT2RP3002062	F-NT2RP3002062	3404	R-NT2RP3002062	8453
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NT2RP3002165	F-NT2RP3002165	3415	R-NT2RP3002165	8463
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NT2RP3002173	F-NT2RP3002173	3417	R-NT2RP3002173	8465
NT2RP3002181	F-NT2RP3002181	3418	R-NT2RP3002181	8466
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	NT2RP3002273	F-NT2RP3002273	3422	R-NT2RP3002273	8470
5	NT2RP3002276	F-NT2RP3002276	3423	R-NT2RP3002276	8471
	NT2RP3002303	F-NT2RP3002303	3424	R-NT2RP3002303	8472
	NT2RP3002304	F-NT2RP3002304	3425	R-NT2RP3002304	8473
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10	NT2RP3002343	F-NT2RP3002343	3427	R-NT2RP3002343	8475
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	NT2RP3002402	F-NT2RP3002402	3432		
	NT2RP3002455	F-NT2RP3002455	3433	R-NT2RP3002455	8478
	NT2RP3002484	F-NT2RP3002484	3434	R-NT2RP3002484	8479
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	NT2RP3002529	F-NT2RP3002529	3437	R-NT2RP3002529	8482
	NT2RP3002545	F-NT2RP3002545	3438	R-NT2RP3002545	8483
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	NT2RP3002587	F-NT2RP3002587	3441	R-NT2RP3002587	8486
	NT2RP3002590	F-NT2RP3002590	3442	R-NT2RP3002590	8487
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30	NT2RP3002603	F-NT2RP3002603	3444	R-NT2RP3002603	8489
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45	NT2RP3002713	F-NT2RP3002713	3456	R-NT2RP3002713	8499
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50	NT2RP3002799	F-NT2RP3002799	3460	R-NT2RP3002799	8503
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	NT2RP3002818	F-NT2RP3002818	3462	R-NT2RP3002818	8505
	NT2RP3002861	F-NT2RP3002861	3463	R-NT2RP3002861	8506
55	NT2RP3002869	F-NT2RP3002869	3464	R-NT2RP3002869	8507
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	NT2RP3002955	F-NT2RP3002955	3471	R-NT2RP3002955	8514
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	NT2RP3002978	F-NT2RP3002978	3474	R-NT2RP3002978	8517
	NT2RP3002985	F-NT2RP3002985	3475		
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15	NT2RP3003008	F-NT2RP3003008	3477	R-NT2RP3003008	8519
	NT2RP3003032	F-NT2RP3003032	3478	R-NT2RP3003032	8520
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	NT2RP3003138	F-NT2RP3003138	3487	R-NT2RP3003138	8529
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30	NT2RP3003145	F-NT2RP3003145	3489		
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35	NT2RP3003193	F-NT2RP3003193	3493	R-NT2RP3003193	8534
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	NT2RP3003282	F-NT2RP3003282	3504	R-NT2RP3003282	8544
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50	NT2RP3003301	F-NT2RP3003301	3506	R-NT2RP3003301	8546
	NT2RP3003302	F-NT2RP3003302	3507	R-NT2RP3003302	8547
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55	NT2RP3003327	F-NT2RP3003327	3510	R-NT2RP3003327	8550
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	NT2RP3003344	F-NT2RP3003344	3512	R-NT2RP3003344	8552
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	NT2RP3003353	F-NT2RP3003353	3514	R-NT2RP3003353	8554
5	NT2RP3003377	F-NT2RP3003377	3515	R-NT2RP3003377	8555
	NT2RP3003384	F-NT2RP3003384	3516	R-NT2RP3003384	8556
	NT2RP3003385	F-NT2RP3003385	3517	R-NT2RP3003385	8557
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10	NT2RP3003409	F-NT2RP3003409	3519	R-NT2RP3003409	8559
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	NT2RP3003427	F-NT2RP3003427	3521	R-NT2RP3003427	8561
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15	NT2RP3003464	F-NT2RP3003464	3523	R-NT2RP3003464	8563
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	NT2RP3003552	F-NT2RP3003552	3528	R-NT2RP3003552	8568
	NT2RP3003555	F-NT2RP3003555	3529	R-NT2RP3003555	8569
	NT2RP3003564	F-NT2RP3003564	3530	R-NT2RP3003564	8570
25	NT2RP3003572	F-NT2RP3003572	3531	R-NT2RP3003572	8571
	NT2RP3003576	F-NT2RP3003576	3532	R-NT2RP3003576	8572
	NT2RP3003589	F-NT2RP3003589	3533	R-NT2RP3003589	8573
	NT2RP3003621	F-NT2RP3003621	3534		
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30	NT2RP3003656	F-NT2RP3003656	3536	R-NT2RP3003656	8575
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	NT2RP3003665	F-NT2RP3003665	3538	R-NT2RP3003665	8577
	NT2RP3003672	F-NT2RP3003672	3539	R-NT2RP3003672	8578
35	NT2RP3003680	F-NT2RP3003680	3540		
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	NT2RP3003701	F-NT2RP3003701	3542	R-NT2RP3003701	8580
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40	NT2RP3003726	F-NT2RP3003726	3544	R-NT2RP3003726	8582
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	NT2RP3003795	F-NT2RP3003795	3546	R-NT2RP3003795	8584
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45	NT2RP3003800	F-NT2RP3003800	3548	R-NT2RP3003800	8586
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	NT2RP3003833	F-NT2RP3003833	3555	R-NT2RP3003833	8593
55	NT2RP3003842	F-NT2RP3003842	3556	R-NT2RP3003842	8594
	NT2RP3003846	F-NT2RP3003846	3557	R-NT2RP3003846	8595

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	NT2RP3003870	F-NT2RP3003870	3558	R-NT2RP3003870	8596
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5	NT2RP3003918	F-NT2RP3003918	3561	R-NT2RP3003918	8599
	NT2RP3003932	F-NT2RP3003932	3562	R-NT2RP3003932	8600
	NT2RP3003989	F-NT2RP3003989	3563	R-NT2RP3003989	8601
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10	NT2RP3004013	F-NT2RP3004013	3565	R-NT2RP3004013	8603
	NT2RP3004016	F-NT2RP3004016	3566	R-NT2RP3004016	8604
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15	NT2RP3004070	F-NT2RP3004070	3569	R-NT2RP3004070	8607
	NT2RP3004078	F-NT2RP3004078	3570	R-NT2RP3004078	8608
	NT2RP3004093	F-NT2RP3004093	3571	R-NT2RP3004093	8609
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20	NT2RP3004110	F-NT2RP3004110	3573	R-NT2RP3004110	8611
	NT2RP3004125	F-NT2RP3004125	3574	R-NT2RP3004125	8612
	NT2RP3004145	F-NT2RP3004145	3575	R-NT2RP3004145	8613
	NT2RP3004148	F-NT2RP3004148	3576	R-NT2RP3004148	8614
	NT2RP3004155	F-NT2RP3004155	3577	R-NT2RP3004155	8615
25	NT2RP3004189	F-NT2RP3004189	3578		
	NT2RP3004206	F-NT2RP3004206	3579	R-NT2RP3004206	8616
	NT2RP3004207	F-NT2RP3004207	3580	R-NT2RP3004207	8617
	NT2RP3004209	F-NT2RP3004209	3581	R-NT2RP3004209	8618
30	NT2RP3004215	F-NT2RP3004215	3582	R-NT2RP3004215	8619
	NT2RP3004242	F-NT2RP3004242	3583	R-NT2RP3004242	8620
	NT2RP3004246	F-NT2RP3004246	3584	R-NT2RP3004246	8621
	NT2RP3004253	F-NT2RP3004253	3585	R-NT2RP3004253	8622
35	NT2RP3004258	F-NT2RP3004258	3586	R-NT2RP3004258	8623
	NT2RP3004262	F-NT2RP3004262	3587	R-NT2RP3004262	8624
	NT2RP3004282	F-NT2RP3004282	3588		
	NT2RP3004332	F-NT2RP3004332	3589		
40	NT2RP3004334	F-NT2RP3004334	3590	R-NT2RP3004334	8625
	NT2RP3004341	F-NT2RP3004341	3591	R-NT2RP3004341	8626
	NT2RP3004348	F-NT2RP3004348	3592	R-NT2RP3004348	8627
	NT2RP3004349	F-NT2RP3004349	3593	R-NT2RP3004349	8628
45	NT2RP3004378	F-NT2RP3004378	3594	R-NT2RP3004378	8629
	NT2RP3004399	F-NT2RP3004399	3595	R-NT2RP3004399	8630
	NT2RP3004424	F-NT2RP3004424	3596	R-NT2RP3004424	8631
	NT2RP3004428	F-NT2RP3004428	3597	R-NT2RP3004428	8632
50	NT2RP3004451	F-NT2RP3004451	3598	R-NT2RP3004451	8633
	NT2RP3004454	F-NT2RP3004454	3599	R-NT2RP3004454	8634
	NT2RP3004466	F-NT2RP3004466	3600	R-NT2RP3004466	8635
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	NT2RP3004472	F-NT2RP3004472	3602	R-NT2RP3004472	8637
55	NT2RP3004475	F-NT2RP3004475	3603	R-NT2RP3004475	8638

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	NT2RP3004498	F-NT2RP3004498	3606	R-NT2RP3004498	8641
5	NT2RP3004503	F-NT2RP3004503	3607	R-NT2RP3004503	8642
	NT2RP3004504	F-NT2RP3004504	3608	R-NT2RP3004504	8643
	NT2RP3004507	F-NT2RP3004507	3609	R-NT2RP3004507	8644
	NT2RP3004527	F-NT2RP3004527	3610	R-NT2RP3004527	8645
10	NT2RP3004534	F-NT2RP3004534	3611	R-ntntntntntntntnt	8646
	NT2RP3004539	F-NT2RP3004539	3612		
	NT2RP3004544	F-NT2RP3004544	3613	R-NT2RP3004544	8647
	NT2RP3004566	F-NT2RP3004566	3614	R-NT2RP3004566	8648
15	NT2RP3004569	F-NT2RP3004569	3615	R-NT2RP3004569	8649
	NT2RP3004572	F-NT2RP3004572	3616	R-NT2RP3004572	8650
	NT2RP3004578	F-NT2RP3004578	3617	R-NT2RP3004578	8651
	NT2RP3004594	F-NT2RP3004594	3618	R-NT2RP3004594	8652
20	NT2RP3004617	F-NT2RP3004617	3619	R-NT2RP3004617	8653
	NT2RP3004618	F-NT2RP3004618	3620	R-NT2RP3004618	8654
	NT2RP3004669	F-NT2RP3004669	3621		
	NT2RP3004670	F-NT2RP3004670	3622	R-NT2RP3004670	8655
25	NT2RP4000008	F-NT2RP4000008	3623	R-NT2RP4000008	8656
	NT2RP4000023	F-NT2RP4000023	3624	R-NT2RP4000023	8657
	NT2RP4000035	F-NT2RP4000035	3625	R-NT2RP4000035	8658
	NT2RP4000049	F-NT2RP4000049	3626	R-NT2RP4000049	8659
30	NT2RP4000051	F-NT2RP4000051	3627	R-NT2RP4000051	8660
	NT2RP4000078	F-NT2RP4000078	3628	R-NT2RP4000078	8661
	NT2RP4000102	F-NT2RP4000102	3629	R-NT2RP4000102	8662
	NT2RP4000109	F-NT2RP4000109	3630	R-NT2RP4000109	8663
	NT2RP4000111	F-NT2RP4000111	3631		
35	NT2RP4000129	F-NT2RP4000129	3632	R-NT2RP4000129	8664
	NT2RP4000147	F-NT2RP4000147	3633	R-NT2RP4000147	8665
	NT2RP4000150	F-NT2RP4000150	3634	R-NT2RP4000150	8666
	NT2RP4000151	F-NT2RP4000151	3635	R-NT2RP4000151	8667
40	NT2RP4000159	F-NT2RP4000159	3636	R-NT2RP4000159	8668
	NT2RP4000167	F-NT2RP4000167	3637	R-NT2RP4000167	8669
	NT2RP4000185	F-NT2RP4000185	3638	R-NT2RP4000185	8670
	NT2RP4000210	F-NT2RP4000210	3639	R-NT2RP4000210	8671
45	NT2RP4000212	F-NT2RP4000212	3640	R-NT2RP4000212	8672
	NT2RP4000214	F-NT2RP4000214	3641	R-NT2RP4000214	8673
	NT2RP4000218	F-NT2RP4000218	3642	R-NT2RP4000218	8674
	NT2RP4000243	F-NT2RP4000243	3643	R-NT2RP4000243	8675
50	NT2RP4000246	F-NT2RP4000246	3644	R-NT2RP4000246	8676
	NT2RP4000259	F-NT2RP4000259	3645	R-NT2RP4000259	8677
	NT2RP4000263	F-NT2RP4000263	3646	R-NT2RP4000263	8678
	NT2RP4000290	F-NT2RP4000290	3647	R-ntntntntntntntnt	8679
55	NT2RP4000312	F-NT2RP4000312	3648	R-NT2RP4000312	8680
	NT2RP4000321	F-NT2RP4000321	3649	R-NT2RP4000321	8681

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	NT2RP4000323	F-NT2RP4000323	3650	R-NT2RP4000323	8682
	NT2RP4000355	F-NT2RP4000355	3651	R-NT2RP4000355	8683
	NT2RP4000360	F-NT2RP4000360	3652	R-NT2RP4000360	8684
5	NT2RP4000367	F-NT2RP4000367	3653	R-NT2RP4000367	8685
	NT2RP4000370	F-NT2RP4000370	3654	R-NT2RP4000370	8686
	NT2RP4000376	F-NT2RP4000376	3655	R-NT2RP4000376	8687
	NT2RP4000381	F-NT2RP4000381	3656	R-NT2RP4000381	8688
10	NT2RP4000398	F-NT2RP4000398	3657		
	NT2RP4000415	F-NT2RP4000415	3658	R-NT2RP4000415	8689
	NT2RP4000417	F-NT2RP4000417	3659	R-NT2RP4000417	8690
	NT2RP4000424	F-NT2RP4000424	3660	R-NT2RP4000424	8691
15	NT2RP4000448	F-NT2RP4000448	3661	R-NT2RP4000448	8692
	NT2RP4000449	F-NT2RP4000449	3662	R-NT2RP4000449	8693
	NT2RP4000455	F-NT2RP4000455	3663	R-NT2RP4000455	8694
	NT2RP4000457	F-NT2RP4000457	3664	R-NT2RP4000457	8695
20	NT2RP4000480	F-NT2RP4000480	3665	R-NT2RP4000480	8696
	NT2RP4000481	F-NT2RP4000481	3666	R-NT2RP4000481	8697
	NT2RP4000498	F-NT2RP4000498	3667		
	NT2RP4000500	F-NT2RP4000500	3668	R-NT2RP4000500	8698
25	NT2RP4000515	F-NT2RP4000515	3669	R-NT2RP4000515	8699
	NT2RP4000517	F-NT2RP4000517	3670	R-NT2RP4000517	8700
	NT2RP4000518	F-NT2RP4000518	3671	R-NT2RP4000518	8701
	NT2RP4000519	F-NT2RP4000519	3672	R-NT2RP4000519	8702
30	NT2RP4000524	F-NT2RP4000524	3673	R-NT2RP4000524	8703
	NT2RP4000528	F-NT2RP4000528	3674	R-NT2RP4000528	8704
	NT2RP4000541	F-NT2RP4000541	3675	R-NT2RP4000541	8705
	NT2RP4000556	F-NT2RP4000556	3676	R-NT2RP4000556	8706
35	NT2RP4000560	F-NT2RP4000560	3677		
	NT2RP4000588	F-NT2RP4000588	3678	R-NT2RP4000588	8707
	NT2RP4000614	F-NT2RP4000614	3679	R-NT2RP4000614	8708
	NT2RP4000638	F-NT2RP4000638	3680	R-NT2RP4000638	8709
40	NT2RP4000648	F-NT2RP4000648	3681	R-NT2RP4000648	8710
	NT2RP4000657	F-NT2RP4000657	3682	R-NT2RP4000657	8711
	NT2RP4000704	F-NT2RP4000704	3683	R-NT2RP4000704	8712
	NT2RP4000713	F-NT2RP4000713	3684		
	NT2RP4000724	F-NT2RP4000724	3685	R-NT2RP4000724	8713
45	NT2RP4000728	F-NT2RP4000728	3686	R-NT2RP4000728	8714
	NT2RP4000737	F-NT2RP4000737	3687		
	NT2RP4000739	F-NT2RP4000739	3688	R-NT2RP4000739	8715
	NT2RP4000781	F-NT2RP4000781	3689	R-NT2RP4000781	8716
50	NT2RP4000787	F-NT2RP4000787	3690		
	NT2RP4000817	F-NT2RP4000817	3691	R-NT2RP4000817	8717
	NT2RP4000833	F-NT2RP4000833	3692	R-NT2RP4000833	8718
	NT2RP4000837	F-NT2RP4000837	3693	R-NT2RP4000837	8719
55	NT2RP4000839	F-NT2RP4000839	3694		
	NT2RP4000855	F-NT2RP4000855	3695	R-NT2RP4000855	8720

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	NT2RP4000865	F-NT2RP4000865	3696	R-NT2RP4000865	8721
	NT2RP4000878	F-NT2RP4000878	3697	R-NT2RP4000878	8722
	NT2RP4000879	F-NT2RP4000879	3698	R-NT2RP4000879	8723
5	NT2RP4000907	F-NT2RP4000907	3699	R-nnnnnnnnnnnnn	8724
	NT2RP4000915	F-NT2RP4000915	3700	R-nnnnnnnnnnnnn	8725
	NT2RP4000918	F-NT2RP4000918	3701		
	NT2RP4000925	F-NT2RP4000925	3702	R-NT2RP4000925	8726
10	NT2RP4000927	F-NT2RP4000927	3703	R-nnnnnnnnnnnnn	8727
	NT2RP4000928	F-NT2RP4000928	3704	R-NT2RP4000928	8728
	NT2RP4000929	F-NT2RP4000929	3705	R-NT2RP4000929	8729
	NT2RP4000955	F-NT2RP4000955	3706	R-NT2RP4000955	8730
15	NT2RP4000973	F-NT2RP4000973	3707	R-NT2RP4000973	8731
	NT2RP4000975	F-NT2RP4000975	3708	R-NT2RP4000975	8732
	NT2RP4000979	F-NT2RP4000979	3709	R-NT2RP4000979	8733
	NT2RP4000984	F-NT2RP4000984	3710	R-NT2RP4000984	8734
20	NT2RP4000989	F-NT2RP4000989	3711	R-NT2RP4000989	8735
	NT2RP4000996	F-NT2RP4000996	3712	R-NT2RP4000996	8736
	NT2RP4000997	F-NT2RP4000997	3713	R-NT2RP4000997	8737
	NT2RP4001004	F-NT2RP4001004	3714	R-NT2RP4001004	8738
25	NT2RP4001006	F-NT2RP4001006	3715	R-NT2RP4001006	8739
	NT2RP4001010	F-NT2RP4001010	3716	R-NT2RP4001010	8740
	NT2RP4001029	F-NT2RP4001029	3717	R-NT2RP4001029	8741
	NT2RP4001041	F-NT2RP4001041	3718	R-NT2RP4001041	8742
30	NT2RP4001057	F-NT2RP4001057	3719	R-NT2RP4001057	8743
	NT2RP4001064	F-NT2RP4001064	3720	R-NT2RP4001064	8744
	NT2RP4001078	F-NT2RP4001078	3721	R-NT2RP4001078	8745
	NT2RP4001079	F-NT2RP4001079	3722	R-NT2RP4001079	8746
	NT2RP4001080	F-NT2RP4001080	3723	R-NT2RP4001080	8747
35	NT2RP4001086	F-NT2RP4001086	3724	R-nnnnnnnnnnnnn	8748
	NT2RP4001095	F-NT2RP4001095	3725	R-NT2RP4001095	8749
	NT2RP4001100	F-NT2RP4001100	3726	R-NT2RP4001100	8750
	NT2RP4001117	F-NT2RP4001117	3727	R-NT2RP4001117	8751
40	NT2RP4001122	F-NT2RP4001122	3728	R-NT2RP4001122	8752
	NT2RP4001126	F-NT2RP4001126	3729	R-NT2RP4001126	8753
	NT2RP4001138	F-NT2RP4001138	3730	R-NT2RP4001138	8754
	NT2RP4001143	F-NT2RP4001143	3731	R-NT2RP4001143	8755
45	NT2RP4001148	F-NT2RP4001148	3732	R-NT2RP4001148	8756
	NT2RP4001149	F-NT2RP4001149	3733	R-NT2RP4001149	8757
	NT2RP4001150	F-NT2RP4001150	3734	R-NT2RP4001150	8758
	NT2RP4001159	F-NT2RP4001159	3735	R-NT2RP4001159	8759
50	NT2RP4001174	F-NT2RP4001174	3736	R-NT2RP4001174	8760
	NT2RP4001206	F-NT2RP4001206	3737	R-nnnnnnnnnnnnn	8761
	NT2RP4001207	F-NT2RP4001207	3738	R-NT2RP4001207	8762
	NT2RP4001210	F-NT2RP4001210	3739	R-NT2RP4001210	8763
55	NT2RP4001213	F-NT2RP4001213	3740	R-NT2RP4001213	8764
	NT2RP4001219	F-NT2RP4001219	3741	R-NT2RP4001219	8765

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	NT2RP4001228	F-NT2RP4001228	3742	R-NT2RP4001228	8766
	NT2RP4001235	F-NT2RP4001235	3743	R-NT2RP4001235	8767
	NT2RP4001256	F-NT2RP4001256	3744	R-NT2RP4001256	8768
5	NT2RP4001260	F-NT2RP4001260	3745	R-NT2RP4001260	8769
	NT2RP4001274	F-NT2RP4001274	3746	R-NT2RP4001274	8770
	NT2RP4001276	F-NT2RP4001276	3747	R-ntntntntntntntntntnt	8771
	NT2RP4001313	F-NT2RP4001313	3748	R-NT2RP4001313	8772
10	NT2RP4001315	F-NT2RP4001315	3749	R-NT2RP4001315	8773
	NT2RP4001336	F-NT2RP4001336	3750		
	NT2RP4001339	F-NT2RP4001339	3751	R-NT2RP4001339	8774
	NT2RP4001343	F-NT2RP4001343	3752		
15	NT2RP4001345	F-NT2RP4001345	3753	R-NT2RP4001345	8775
	NT2RP4001351	F-NT2RP4001351	3754	R-NT2RP4001351	8776
	NT2RP4001353	F-NT2RP4001353	3755	R-NT2RP4001353	8777
	NT2RP4001372	F-NT2RP4001372	3756	R-NT2RP4001372	8778
20	NT2RP4001373	F-NT2RP4001373	3757	R-NT2RP4001373	8779
	NT2RP4001375	F-NT2RP4001375	3758	R-NT2RP4001375	8780
	NT2RP4001379	F-NT2RP4001379	3759	R-NT2RP4001379	8781
	NT2RP4001389	F-NT2RP4001389	3760	R-NT2RP4001389	8782
25	NT2RP4001407	F-NT2RP4001407	3761	R-NT2RP4001407	8783
	NT2RP4001414	F-NT2RP4001414	3762	R-NT2RP4001414	8784
	NT2RP4001433	F-NT2RP4001433	3763	R-NT2RP4001433	8785
	NT2RP4001442	F-NT2RP4001442	3764	R-NT2RP4001442	8786
30	NT2RP4001447	F-NT2RP4001447	3765	R-NT2RP4001447	8787
	NT2RP4001474	F-NT2RP4001474	3766	R-NT2RP4001474	8788
	NT2RP4001483	F-NT2RP4001483	3767	R-NT2RP4001483	8789
	NT2RP4001498	F-NT2RP4001498	3768	R-NT2RP4001498	8790
35	NT2RP4001502	F-NT2RP4001502	3769	R-NT2RP4001502	8791
	NT2RP4001507	F-NT2RP4001507	3770	R-NT2RP4001507	8792
	NT2RP4001524	F-NT2RP4001524	3771	R-NT2RP4001524	8793
	NT2RP4001529	F-NT2RP4001529	3772	R-NT2RP4001529	8794
40	NT2RP4001547	F-NT2RP4001547	3773	R-NT2RP4001547	8795
	NT2RP4001551	F-NT2RP4001551	3774	R-ntntntntntntntntntnt	8796
	NT2RP4001555	F-NT2RP4001555	3775	R-NT2RP4001555	8797
	NT2RP4001567	F-NT2RP4001567	3776	R-NT2RP4001567	8798
	NT2RP4001568	F-NT2RP4001568	3777	R-NT2RP4001568	8799
45	NT2RP4001571	F-NT2RP4001571	3778	R-NT2RP4001571	8800
	NT2RP4001574	F-NT2RP4001574	3779	R-NT2RP4001574	8801
	NT2RP4001575	F-NT2RP4001575	3780	R-NT2RP4001575	8802
	NT2RP4001592	F-NT2RP4001592	3781	R-NT2RP4001592	8803
50	NT2RP4001610	F-NT2RP4001610	3782	R-NT2RP4001610	8804
	NT2RP4001614	F-NT2RP4001614	3783	R-NT2RP4001614	8805
	NT2RP4001634	F-NT2RP4001634	3784	R-NT2RP4001634	8806
	NT2RP4001638	F-NT2RP4001638	3785	R-NT2RP4001638	8807
55	NT2RP4001644	F-NT2RP4001644	3786	R-NT2RP4001644	8808
	NT2RP4001656	F-NT2RP4001656	3787	R-NT2RP4001656	8809

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	NT2RP4001677	F-NT2RP4001677	3788	R-NT2RP4001677	8810
	NT2RP4001679	F-NT2RP4001679	3789		
	NT2RP4001696	F-NT2RP4001696	3790	R-NT2RP4001696	8811
5	NT2RP4001725	F-NT2RP4001725	3791	R-NT2RP4001725	8812
	NT2RP4001730	F-NT2RP4001730	3792	R-NNNNNNNNNNNN	8813
	NT2RP4001739	F-NT2RP4001739	3793	R-NT2RP4001739	8814
	NT2RP4001753	F-NT2RP4001753	3794	R-NT2RP4001753	8815
10	NT2RP4001760	F-NT2RP4001760	3795	R-NT2RP4001760	8816
	NT2RP4001790	F-NT2RP4001790	3796	R-NT2RP4001790	8817
	NT2RP4001803	F-NT2RP4001803	3797	R-NT2RP4001803	8818
	NT2RP4001822	F-NT2RP4001822	3798	R-NT2RP4001822	8819
15	NT2RP4001823	F-NT2RP4001823	3799	R-NT2RP4001823	8820
	NT2RP4001828	F-NT2RP4001828	3800	R-NT2RP4001828	8821
	NT2RP4001838	F-NT2RP4001838	3801	R-NT2RP4001838	8822
	NT2RP4001841	F-NT2RP4001841	3802		
20	NT2RP4001849	F-NT2RP4001849	3803	R-NT2RP4001849	8823
	NT2RP4001861	F-NT2RP4001861	3804		
	NT2RP4001889	F-NT2RP4001889	3805	R-NT2RP4001889	8824
	NT2RP4001893	F-NT2RP4001893	3806	R-NT2RP4001893	8825
25	NT2RP4001896	F-NT2RP4001896	3807	R-NT2RP4001896	8826
	NT2RP4001901	F-NT2RP4001901	3808	R-NT2RP4001901	8827
	NT2RP4001927	F-NT2RP4001927	3809	R-NT2RP4001927	8828
	NT2RP4001938	F-NT2RP4001938	3810	R-NT2RP4001938	8829
30	NT2RP4001946	F-NT2RP4001946	3811	R-NT2RP4001946	8830
	NT2RP4001950	F-NT2RP4001950	3812	R-NT2RP4001950	8831
	NT2RP4001953	F-NT2RP4001953	3813	R-NT2RP4001953	8832
	NT2RP4001966	F-NT2RP4001966	3814	R-NT2RP4001966	8833
35	NT2RP4001975	F-NT2RP4001975	3815	R-NT2RP4001975	8834
	NT2RP4002018	F-NT2RP4002018	3816	R-NT2RP4002018	8835
	NT2RP4002047	F-NT2RP4002047	3817	R-NT2RP4002047	8836
	NT2RP4002052	F-NT2RP4002052	3818	R-NT2RP4002052	8837
40	NT2RP4002058	F-NT2RP4002058	3819	R-NT2RP4002058	8838
	NT2RP4002071	F-NT2RP4002071	3820	R-NT2RP4002071	8839
	NT2RP4002075	F-NT2RP4002075	3821	R-NT2RP4002075	8840
	NT2RP4002078	F-NT2RP4002078	3822	R-NT2RP4002078	8841
45	NT2RP4002081	F-NT2RP4002081	3823	R-NNNNNNNNNNNN	8842
	NT2RP4002083	F-NT2RP4002083	3824	R-NT2RP4002083	8843
	NT2RP4002408	F-NT2RP4002408	3825	R-NT2RP4002408	8844
	NT2RP4002791	F-NT2RP4002791	3826	R-NT2RP4002791	8845
	NT2RP4002888	F-NT2RP4002888	3827	R-NT2RP4002888	8846
50	NT2RP4002905	F-NT2RP4002905	3828	R-NT2RP4002905	8847
	NT2RP5003459	F-NT2RP5003459	3829		
	NT2RP5003461	F-NT2RP5003461	3830		
	NT2RP5003477	F-NT2RP5003477	3831		
55	NT2RP5003492	F-NT2RP5003492	3832		
	NT2RP5003500	F-NT2RP5003500	3833		

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	NT2RP5003506	F-NT2RP5003506	3834		
	NT2RP5003512	F-NT2RP5003512	3835		
	NT2RP5003522	F-NT2RP5003522	3836		
5	NT2RP5003524	F-NT2RP5003524	3837		
	NT2RP5003534	F-NT2RP5003534	3838		
	OVARC1000001	F-OVARC1000001	3839	R-OVARC1000001	8848
	OVARC1000004	F-OVARC1000004	3840	R-OVARC1000004	8849
10	OVARC1000006	F-OVARC1000006	3841	R-OVARC1000006	8850
	OVARC1000013	F-OVARC1000013	3842	R-OVARC1000013	8851
	OVARC1000014	F-OVARC1000014	3843	R-OVARC1000014	8852
	OVARC1000017	F-OVARC1000017	3844	R-OVARC1000017	8853
15	OVARC1000035	F-OVARC1000035	3845	R-OVARC1000035	8854
	OVARC1000058	F-OVARC1000058	3846	R-OVARC1000058	8855
	OVARC1000060	F-OVARC1000060	3847	R-OVARC1000060	8856
	OVARC1000068	F-OVARC1000068	3848	R-OVARC1000068	8857
20	OVARC1000071	F-OVARC1000071	3849	R-OVARC1000071	8858
	OVARC1000085	F-OVARC1000085	3850	R-OVARC1000085	8859
	OVARC1000087	F-OVARC1000087	3851	R-nnnnnnnnnnnnn	8860
	OVARC1000091	F-OVARC1000091	3852	R-OVARC1000091	8861
25	OVARC1000092	F-OVARC1000092	3853	R-OVARC1000092	8862
	OVARC1000106	F-OVARC1000106	3854	R-OVARC1000106	8863
	OVARC1000109	F-OVARC1000109	3855		
	OVARC1000113	F-OVARC1000113	3856	R-OVARC1000113	8864
30	OVARC1000114	F-OVARC1000114	3857	R-OVARC1000114	8865
	OVARC1000133	F-OVARC1000133	3858	R-OVARC1000133	8866
	OVARC1000139	F-OVARC1000139	3859		
	OVARC1000145	F-OVARC1000145	3860	R-OVARC1000145	8867
	OVARC1000148	F-OVARC1000148	3861	R-OVARC1000148	8868
35	OVARC1000151	F-OVARC1000151	3862	R-OVARC1000151	8869
	OVARC1000168	F-OVARC1000168	3863	R-OVARC1000168	8870
	OVARC1000191	F-OVARC1000191	3864	R-OVARC1000191	8871
	OVARC1000198	F-OVARC1000198	3865	R-OVARC1000198	8872
40	OVARC1000209	F-OVARC1000209	3866	R-OVARC1000209	8873
	OVARC1000212	F-OVARC1000212	3867	R-OVARC1000212	8874
	OVARC1000240	F-OVARC1000240	3868	R-OVARC1000240	8875
	OVARC1000241	F-OVARC1000241	3869	R-OVARC1000241	8876
45	OVARC1000288	F-OVARC1000288	3870	R-OVARC1000288	8877
	OVARC1000302	F-OVARC1000302	3871	R-OVARC1000302	8878
	OVARC1000304	F-OVARC1000304	3872	R-OVARC1000304	8879
	OVARC1000309	F-OVARC1000309	3873	R-OVARC1000309	8880
50	OVARC1000321	F-OVARC1000321	3874	R-OVARC1000321	8881
	OVARC1000326	F-OVARC1000326	3875	R-OVARC1000326	8882
	OVARC1000335	F-OVARC1000335	3876	R-OVARC1000335	8883
	OVARC1000347	F-OVARC1000347	3877	R-OVARC1000347	8884
55	OVARC1000384	F-OVARC1000384	3878	R-OVARC1000384	8885
	OVARC1000408	F-OVARC1000408	3879	R-OVARC1000408	8886

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	OVARC1000411	F-OVARC1000411	3880	R-OVARC1000411	8887
	OVARC1000414	F-OVARC1000414	3881	R-OVARC1000414	8888
	OVARC1000420	F-OVARC1000420	3882	R-OVARC1000420	8889
5	OVARC1000427	F-OVARC1000427	3883	R-OVARC1000427	8890
	OVARC1000431	F-OVARC1000431	3884	R-OVARC1000431	8891
	OVARC1000437	F-OVARC1000437	3885	R-OVARC1000437	8892
	OVARC1000440	F-OVARC1000440	3886	R-OVARC1000440	8893
10	OVARC1000442	F-OVARC1000442	3887	R-OVARC1000442	8894
	OVARC1000443	F-OVARC1000443	3888	R-OVARC1000443	8895
	OVARC1000461	F-OVARC1000461	3889	R-OVARC1000461	8896
	OVARC1000465	F-OVARC1000465	3890	R-OVARC1000465	8897
15	OVARC1000466	F-OVARC1000466	3891	R-OVARC1000466	8898
	OVARC1000473	F-OVARC1000473	3892	R-OVARC1000473	8899
	OVARC1000479	F-OVARC1000479	3893	R-OVARC1000479	8900
	OVARC1000486	F-OVARC1000486	3894	R-OVARC1000486	8901
20	OVARC1000496	F-OVARC1000496	3895	R-OVARC1000496	8902
	OVARC1000520	F-OVARC1000520	3896	R-OVARC1000520	8903
	OVARC1000526	F-OVARC1000526	3897	R-OVARC1000526	8904
	OVARC1000533	F-OVARC1000533	3898	R-OVARC1000533	8905
25	OVARC1000543	F-OVARC1000543	3899	R-OVARC1000543	8906
	OVARC1000556	F-OVARC1000556	3900	R-OVARC1000556	8907
	OVARC1000557	F-OVARC1000557	3901	R-OVARC1000557	8908
	OVARC1000564	F-OVARC1000564	3902	R-OVARC1000564	8909
30	OVARC1000573	F-OVARC1000573	3903	R-OVARC1000573	8910
	OVARC1000576	F-OVARC1000576	3904		
	OVARC1000578	F-OVARC1000578	3905	R-OVARC1000578	8911
	OVARC1000588	F-OVARC1000588	3906	R-OVARC1000588	8912
35	OVARC1000605	F-OVARC1000605	3907	R-OVARC1000605	8913
	OVARC1000622	F-OVARC1000622	3908	R-OVARC1000622	8914
	OVARC1000640	F-OVARC1000640	3909	R-OVARC1000640	8915
	OVARC1000649	F-OVARC1000649	3910		
40	OVARC1000661	F-OVARC1000661	3911	R-OVARC1000661	8916
	OVARC1000678	F-OVARC1000678	3912	R-OVARC1000678	8917
	OVARC1000679	F-OVARC1000679	3913	R-nnnnnnnnnnnnn	8918
	OVARC1000681	F-OVARC1000681	3914	R-OVARC1000681	8919
	OVARC1000682	F-OVARC1000682	3915		
45	OVARC1000689	F-OVARC1000689	3916	R-OVARC1000689	8920
	OVARC1000700	F-OVARC1000700	3917	R-OVARC1000700	8921
	OVARC1000703	F-OVARC1000703	3918	R-OVARC1000703	8922
	OVARC1000722	F-OVARC1000722	3919		
50	OVARC1000730	F-OVARC1000730	3920	R-OVARC1000730	8923
	OVARC1000746	F-OVARC1000746	3921	R-OVARC1000746	8924
	OVARC1000769	F-OVARC1000769	3922	R-OVARC1000769	8925
	OVARC1000771	F-OVARC1000771	3923	R-OVARC1000771	8926
55	OVARC1000781	F-OVARC1000781	3924	R-OVARC1000781	8927
	OVARC1000787	F-OVARC1000787	3925	R-OVARC1000787	8928

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	OVARC1000800	F-OVARC1000800	3926	R-OVARC1000800	8929
	OVARC1000802	F-OVARC1000802	3927	R-OVARC1000802	8930
	OVARC1000834	F-OVARC1000834	3928	R-OVARC1000834	8931
5	OVARC1000846	F-OVARC1000846	3929	R-OVARC1000846	8932
	OVARC1000850	F-OVARC1000850	3930	R-OVARC1000850	8933
	OVARC1000862	F-OVARC1000862	3931	R-OVARC1000862	8934
	OVARC1000876	F-OVARC1000876	3932	R-OVARC1000876	8935
10	OVARC1000883	F-OVARC1000883	3933	R-OVARC1000883	8936
	OVARC1000885	F-OVARC1000885	3934	R-OVARC1000885	8937
	OVARC1000886	F-OVARC1000886	3935	R-OVARC1000886	8938
	OVARC1000890	F-OVARC1000890	3936		
15	OVARC1000891	F-OVARC1000891	3937	R-OVARC1000891	8939
	OVARC1000897	F-OVARC1000897	3938	R-OVARC1000897	8940
	OVARC1000912	F-OVARC1000912	3939	R-OVARC1000912	8941
	OVARC1000915	F-OVARC1000915	3940	R-OVARC1000915	8942
20	OVARC1000924	F-OVARC1000924	3941	R-OVARC1000924	8943
	OVARC1000936	F-OVARC1000936	3942	R-OVARC1000936	8944
	OVARC1000937	F-OVARC1000937	3943	R-OVARC1000937	8945
	OVARC1000945	F-OVARC1000945	3944	R-OVARC1000945	8946
25	OVARC1000948	F-OVARC1000948	3945	R-OVARC1000948	8947
	OVARC1000959	F-OVARC1000959	3946	R-OVARC1000959	8948
	OVARC1000960	F-OVARC1000960	3947	R-OVARC1000960	8949
	OVARC1000964	F-OVARC1000964	3948		
30	OVARC1000971	F-OVARC1000971	3949	R-OVARC1000971	8950
	OVARC1000984	F-OVARC1000984	3950	R-OVARC1000984	8951
	OVARC1000996	F-OVARC1000996	3951	R-OVARC1000996	8952
	OVARC1000999	F-OVARC1000999	3952	R-OVARC1000999	8953
	OVARC1001000	F-OVARC1001000	3953	R-OVARC1001000	8954
35	OVARC1001004	F-OVARC1001004	3954	R-OVARC1001004	8955
	OVARC1001010	F-OVARC1001010	3955	R-OVARC1001010	8956
	OVARC1001011	F-OVARC1001011	3956	R-OVARC1001011	8957
	OVARC1001032	F-OVARC1001032	3957	R-OVARC1001032	8958
40	OVARC1001034	F-OVARC1001034	3958	R-OVARC1001034	8959
	OVARC1001038	F-OVARC1001038	3959	R-OVARC1001038	8960
	OVARC1001040	F-OVARC1001040	3960	R-OVARC1001040	8961
	OVARC1001044	F-OVARC1001044	3961	R-OVARC1001044	8962
45	OVARC1001051	F-OVARC1001051	3962	R-OVARC1001051	8963
	OVARC1001055	F-OVARC1001055	3963	R-OVARC1001055	8964
	OVARC1001062	F-OVARC1001062	3964	R-OVARC1001062	8965
	OVARC1001065	F-OVARC1001065	3965		
50	OVARC1001068	F-OVARC1001068	3966	R-OVARC1001068	8966
	OVARC1001072	F-OVARC1001072	3967	R-OVARC1001072	8967
	OVARC1001074	F-OVARC1001074	3968	R-OVARC1001074	8968
	OVARC1001085	F-OVARC1001085	3969	R-OVARC1001085	8969
55	OVARC1001092	F-OVARC1001092	3970	R-OVARC1001092	8970
	OVARC1001107	F-OVARC1001107	3971		

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	OVARC1001113	F-OVARC1001113	3972	R-OVARC1001113	8971
	OVARC1001117	F-OVARC1001117	3973	R-OVARC1001117	8972
	OVARC1001118	F-OVARC1001118	3974	R-OVARC1001118	8973
5	OVARC1001129	F-OVARC1001129	3975	R-OVARC1001129	8974
	OVARC1001154	F-OVARC1001154	3976		
	OVARC1001161	F-OVARC1001161	3977	R-OVARC1001161	8975
	OVARC1001162	F-OVARC1001162	3978	R-OVARC1001162	8976
10	OVARC1001167	F-OVARC1001167	3979	R-OVARC1001167	8977
	OVARC1001169	F-OVARC1001169	3980	R-OVARC1001169	8978
	OVARC1001170	F-OVARC1001170	3981	R-OVARC1001170	8979
	OVARC1001171	F-OVARC1001171	3982		
15	OVARC1001173	F-OVARC1001173	3983	R-OVARC1001173	8980
	OVARC1001176	F-OVARC1001176	3984		
	OVARC1001180	F-OVARC1001180	3985	R-OVARC1001180	8981
	OVARC1001188	F-OVARC1001188	3986	R-OVARC1001188	8982
20	OVARC1001200	F-OVARC1001200	3987	R-OVARC1001200	8983
	OVARC1001232	F-OVARC1001232	3988	R-OVARC1001232	8984
	OVARC1001240	F-OVARC1001240	3989	R-OVARC1001240	8985
	OVARC1001243	F-OVARC1001243	3990	R-OVARC1001243	8986
25	OVARC1001244	F-OVARC1001244	3991		
	OVARC1001261	F-OVARC1001261	3992	R-OVARC1001261	8987
	OVARC1001268	F-OVARC1001268	3993	R-OVARC1001268	8988
	OVARC1001270	F-OVARC1001270	3994	R-OVARC1001270	8989
	OVARC1001271	F-OVARC1001271	3995	R-OVARC1001271	8990
30	OVARC1001282	F-OVARC1001282	3996	R-OVARC1001282	8991
	OVARC1001296	F-OVARC1001296	3997	R-OVARC1001296	8992
	OVARC1001306	F-OVARC1001306	3998	R-nnnnnnnnnnnnn	8993
	OVARC1001329	F-OVARC1001329	3999	R-OVARC1001329	8994
35	OVARC1001330	F-OVARC1001330	4000	R-OVARC1001330	8995
	OVARC1001339	F-OVARC1001339	4001	R-OVARC1001339	8996
	OVARC1001341	F-OVARC1001341	4002	R-OVARC1001341	8997
	OVARC1001342	F-OVARC1001342	4003	R-OVARC1001342	8998
40	OVARC1001344	F-OVARC1001344	4004	R-OVARC1001344	8999
	OVARC1001357	F-OVARC1001357	4005	R-OVARC1001357	9000
	OVARC1001360	F-OVARC1001360	4006	R-OVARC1001360	9001
	OVARC1001369	F-OVARC1001369	4007	R-OVARC1001369	9002
45	OVARC1001372	F-OVARC1001372	4008	R-OVARC1001372	9003
	OVARC1001376	F-OVARC1001376	4009	R-OVARC1001376	9004
	OVARC1001381	F-OVARC1001381	4010	R-OVARC1001381	9005
	OVARC1001391	F-OVARC1001391	4011	R-OVARC1001391	9006
50	OVARC1001399	F-OVARC1001399	4012	R-nnnnnnnnnnnnn	9007
	OVARC1001417	F-OVARC1001417	4013	R-OVARC1001417	9008
	OVARC1001419	F-OVARC1001419	4014	R-OVARC1001419	9009
	OVARC1001425	F-OVARC1001425	4015	R-OVARC1001425	9010
	OVARC1001436	F-OVARC1001436	4016	R-OVARC1001436	9011
55	OVARC1001442	F-OVARC1001442	4017	R-OVARC1001442	9012

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	OVARC1001453	F-OVARC1001453	4018	R-OVARC1001453	9013
	OVARC1001476	F-OVARC1001476	4019	R-OVARC1001476	9014
	OVARC1001480	F-OVARC1001480	4020	R-OVARC1001480	9015
5	OVARC1001489	F-OVARC1001489	4021	R-OVARC1001489	9016
	OVARC1001496	F-OVARC1001496	4022	R-OVARC1001496	9017
	OVARC1001506	F-OVARC1001506	4023	R-OVARC1001506	9018
	OVARC1001525	F-OVARC1001525	4024	R-OVARC1001525	9019
10	OVARC1001542	F-OVARC1001542	4025	R-OVARC1001542	9020
	OVARC1001547	F-OVARC1001547	4026	R-OVARC1001547	9021
	OVARC1001555	F-OVARC1001555	4027		
	OVARC1001577	F-OVARC1001577	4028	R-OVARC1001577	9022
15	OVARC1001600	F-OVARC1001600	4029	R-OVARC1001600	9023
	OVARC1001610	F-OVARC1001610	4030	R-OVARC1001610	9024
	OVARC1001611	F-OVARC1001611	4031	R-OVARC1001611	9025
	OVARC1001615	F-OVARC1001615	4032	R-OVARC1001615	9026
20	OVARC1001668	F-OVARC1001668	4033	R-OVARC1001668	9027
	OVARC1001702	F-OVARC1001702	4034	R-OVARC1001702	9028
	OVARC1001703	F-OVARC1001703	4035	R-OVARC1001703	9029
	OVARC1001711	F-OVARC1001711	4036	R-OVARC1001711	9030
	OVARC1001713	F-OVARC1001713	4037		
25	OVARC1001726	F-OVARC1001726	4038	R-OVARC1001726	9031
	OVARC1001731	F-OVARC1001731	4039	R-OVARC1001731	9032
	OVARC1001745	F-OVARC1001745	4040	R-OVARC1001745	9033
	OVARC1001762	F-OVARC1001762	4041	R-nnnnnnnnnnnnn	9034
30	OVARC1001766	F-OVARC1001766	4042	R-OVARC1001766	9035
	OVARC1001767	F-OVARC1001767	4043	R-nnnnnnnnnnnnn	9036
	OVARC1001768	F-OVARC1001768	4044	R-OVARC1001768	9037
	OVARC1001791	F-OVARC1001791	4045	R-OVARC1001791	9038
35	OVARC1001795	F-OVARC1001795	4046	R-OVARC1001795	9039
	OVARC1001802	F-OVARC1001802	4047	R-OVARC1001802	9040
	OVARC1001805	F-OVARC1001805	4048	R-OVARC1001805	9041
	OVARC1001809	F-OVARC1001809	4049		
40	OVARC1001812	F-OVARC1001812	4050	R-OVARC1001812	9042
	OVARC1001813	F-OVARC1001813	4051	R-OVARC1001813	9043
	OVARC1001820	F-OVARC1001820	4052	R-OVARC1001820	9044
	OVARC1001828	F-OVARC1001828	4053	R-OVARC1001828	9045
45	OVARC1001846	F-OVARC1001846	4054	R-OVARC1001846	9046
	OVARC1001861	F-OVARC1001861	4055	R-OVARC1001861	9047
	OVARC1001873	F-OVARC1001873	4056	R-OVARC1001873	9048
	OVARC1001879	F-OVARC1001879	4057	R-OVARC1001879	9049
	OVARC1001880	F-OVARC1001880	4058	R-OVARC1001880	9050
50	OVARC1001883	F-OVARC1001883	4059	R-OVARC1001883	9051
	OVARC1001900	F-OVARC1001900	4060	R-OVARC1001900	9052
	OVARC1001901	F-OVARC1001901	4061	R-OVARC1001901	9053
	OVARC1001911	F-OVARC1001911	4062	R-OVARC1001911	9054
55	OVARC1001916	F-OVARC1001916	4063	R-OVARC1001916	9055

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	OVARC1001928	F-OVARC1001928	4064	R-OVARC1001928	9056
	OVARC1001942	F-OVARC1001942	4065	R-OVARC1001942	9057
	OVARC1001943	F-OVARC1001943	4066	R-OVARC1001943	9058
5	OVARC1001949	F-OVARC1001949	4067	R-OVARC1001949	9059
	OVARC1001950	F-OVARC1001950	4068	R-OVARC1001950	9060
	OVARC1001987	F-OVARC1001987	4069	R-OVARC1001987	9061
	OVARC1001989	F-OVARC1001989	4070	R-OVARC1001989	9062
10	OVARC1002044	F-OVARC1002044	4071	R-OVARC1002044	9063
	OVARC1002050	F-OVARC1002050	4072	R-OVARC1002050	9064
	OVARC1002066	F-OVARC1002066	4073	R-OVARC1002066	9065
	OVARC1002082	F-OVARC1002082	4074	R-OVARC1002082	9066
15	OVARC1002107	F-OVARC1002107	4075	R-OVARC1002107	9067
	OVARC1002112	F-OVARC1002112	4076		
	OVARC1002127	F-OVARC1002127	4077	R-OVARC1002127	9068
	OVARC1002138	F-OVARC1002138	4078	R-OVARC1002138	9069
20	OVARC1002143	F-OVARC1002143	4079	R-OVARC1002143	9070
	OVARC1002156	F-OVARC1002156	4080	R-OVARC1002156	9071
	OVARC1002158	F-OVARC1002158	4081	R-OVARC1002158	9072
	OVARC1002165	F-OVARC1002165	4082	R-OVARC1002165	9073
	OVARC1002182	F-OVARC1002182	4083	R-OVARC1002182	9074
25	PLACE1000004	F-PLACE1000004	4084	R-PLACE1000004	9075
	PLACE1000005	F-PLACE1000005	4085	R-PLACE1000005	9076
	PLACE1000007	F-PLACE1000007	4086	R-PLACE1000007	9077
	PLACE1000014	F-PLACE1000014	4087	R-PLACE1000014	9078
30	PLACE1000031	F-PLACE1000031	4088	R-PLACE1000031	9079
	PLACE1000040	F-PLACE1000040	4089	R-PLACE1000040	9080
	PLACE1000048	F-PLACE1000048	4090	R-PLACE1000048	9081
	PLACE1000050	F-PLACE1000050	4091	R-PLACE1000050	9082
35	PLACE1000061	F-PLACE1000061	4092	R-PLACE1000061	9083
	PLACE1000066	F-PLACE1000066	4093	R-PLACE1000066	9084
	PLACE1000078	F-PLACE1000078	4094	R-PLACE1000078	9085
	PLACE1000081	F-PLACE1000081	4095	R-PLACE1000081	9086
40	PLACE1000094	F-PLACE1000094	4096	R-PLACE1000094	9087
	PLACE1000133	F-PLACE1000133	4097	R-PLACE1000133	9088
	PLACE1000142	F-PLACE1000142	4098	R-PLACE1000142	9089
	PLACE1000184	F-PLACE1000184	4099	R-PLACE1000184	9090
45	PLACE1000185	F-PLACE1000185	4100	R-PLACE1000185	9091
	PLACE1000213	F-PLACE1000213	4101	R-PLACE1000213	9092
	PLACE1000214	F-PLACE1000214	4102	R-PLACE1000214	9093
	PLACE1000236	F-PLACE1000236	4103	R-PLACE1000236	9094
	PLACE1000246	F-PLACE1000246	4104	R-PLACE1000246	9095
50	PLACE1000292	F-PLACE1000292	4105	R-PLACE1000292	9096
	PLACE1000308	F-PLACE1000308	4106		
	PLACE1000332	F-PLACE1000332	4107	R-PLACE1000332	9097
	PLACE1000347	F-PLACE1000347	4108	R-PLACE1000347	9098
55	PLACE1000374	F-PLACE1000374	4109	R-PLACE1000374	9099

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	PLACE1000380	F-PLACE1000380	4110	R-PLACE1000380	9100
	PLACE1000383	F-PLACE1000383	4111	R-PLACE1000383	9101
	PLACE1000401	F-PLACE1000401	4112	R-PLACE1000401	9102
5	PLACE1000406	F-PLACE1000406	4113	R-PLACE1000406	9103
	PLACE1000420	F-PLACE1000420	4114	R-PLACE1000420	9104
	PLACE1000421	F-PLACE1000421	4115	R-PLACE1000421	9105
	PLACE1000424	F-PLACE1000424	4116	R-PLACE1000424	9106
10	PLACE1000435	F-PLACE1000435	4117	R-PLACE1000435	9107
	PLACE1000444	F-PLACE1000444	4118	R-PLACE1000444	9108
	PLACE1000453	F-PLACE1000453	4119	R-PLACE1000453	9109
	PLACE1000481	F-PLACE1000481	4120	R-PLACE1000481	9110
15	PLACE1000492	F-PLACE1000492	4121	R-PLACE1000492	9111
	PLACE1000540	F-PLACE1000540	4122	R-PLACE1000540	9112
	PLACE1000547	F-PLACE1000547	4123	R-PLACE1000547	9113
	PLACE1000562	F-PLACE1000562	4124	R-PLACE1000562	9114
20	PLACE1000564	F-PLACE1000564	4125	R-PLACE1000564	9115
	PLACE1000583	F-PLACE1000583	4126	R-PLACE1000583	9116
	PLACE1000588	F-PLACE1000588	4127	R-nnnnnnnnnnnnn	9117
	PLACE1000596	F-PLACE1000596	4128	R-PLACE1000596	9118
	PLACE1000599	F-PLACE1000599	4129	R-PLACE1000599	9119
25	PLACE1000610	F-PLACE1000610	4130	R-PLACE1000610	9120
	PLACE1000611	F-PLACE1000611	4131		
	PLACE1000636	F-PLACE1000636	4132	R-PLACE1000636	9121
	PLACE1000653	F-PLACE1000653	4133	R-PLACE1000653	9122
30	PLACE1000656	F-PLACE1000656	4134	R-PLACE1000656	9123
	PLACE1000706	F-PLACE1000706	4135	R-PLACE1000706	9124
	PLACE1000712	F-PLACE1000712	4136	R-PLACE1000712	9125
	PLACE1000716	F-PLACE1000716	4137	R-PLACE1000716	9126
35	PLACE1000748	F-PLACE1000748	4138	R-PLACE1000748	9127
	PLACE1000749	F-PLACE1000749	4139	R-PLACE1000749	9128
	PLACE1000755	F-PLACE1000755	4140	R-PLACE1000755	9129
	PLACE1000769	F-PLACE1000769	4141	R-PLACE1000769	9130
40	PLACE1000785	F-PLACE1000785	4142	R-PLACE1000785	9131
	PLACE1000786	F-PLACE1000786	4143	R-PLACE1000786	9132
	PLACE1000793	F-PLACE1000793	4144	R-nnnnnnnnnnnnn	9133
	PLACE1000798	F-PLACE1000798	4145	R-PLACE1000798	9134
45	PLACE1000841	F-PLACE1000841	4146	R-PLACE1000841	9135
	PLACE1000849	F-PLACE1000849	4147	R-nnnnnnnnnnnnn	9136
	PLACE1000856	F-PLACE1000856	4148	R-PLACE1000856	9137
	PLACE1000863	F-PLACE1000863	4149	R-PLACE1000863	9138
	PLACE1000909	F-PLACE1000909	4150	R-PLACE1000909	9139
50	PLACE1000931	F-PLACE1000931	4151	R-PLACE1000931	9140
	PLACE1000948	F-PLACE1000948	4152	R-PLACE1000948	9141
	PLACE1000972	F-PLACE1000972	4153	R-PLACE1000972	9142
	PLACE1000977	F-PLACE1000977	4154	R-PLACE1000977	9143
55	PLACE1000979	F-PLACE1000979	4155	R-PLACE1000979	9144

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	PLACE1000987	F-PLACE1000987	4156		
	PLACE1001000	F-PLACE1001000	4157	R-PLACE1001000	9145
	PLACE1001007	F-PLACE1001007	4158	R-PLACE1001007	9146
5	PLACE1001010	F-PLACE1001010	4159	R-PLACE1001010	9147
	PLACE1001015	F-PLACE1001015	4160	R-PLACE1001015	9148
	PLACE1001024	F-PLACE1001024	4161	R-PLACE1001024	9149
	PLACE1001036	F-PLACE1001036	4162	R-PLACE1001036	9150
10	PLACE1001054	F-PLACE1001054	4163		
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	PLACE1001076	F-PLACE1001076	4165	R-PLACE1001076	9152
	PLACE1001088	F-PLACE1001088	4166	R-PLACE1001088	9153
15	PLACE1001092	F-PLACE1001092	4167	R-PLACE1001092	9154
	PLACE1001104	F-PLACE1001104	4168	R-PLACE1001104	9155
	PLACE1001118	F-PLACE1001118	4169	R-PLACE1001118	9156
	PLACE1001136	F-PLACE1001136	4170	R-PLACE1001136	9157
20	PLACE1001168	F-PLACE1001168	4171	R-PLACE1001168	9158
	PLACE1001171	F-PLACE1001171	4172	R-PLACE1001171	9159
	PLACE1001185	F-PLACE1001185	4173	R-PLACE1001185	9160
	PLACE1001238	F-PLACE1001238	4174	R-PLACE1001238	9161
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25	PLACE1001257	F-PLACE1001257	4176	R-PLACE1001257	9163
	PLACE1001272	F-PLACE1001272	4177	R-PLACE1001272	9164
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	PLACE1001280	F-PLACE1001280	4179	R-PLACE1001280	9166
30	PLACE1001294	F-PLACE1001294	4180	R-PLACE1001294	9167
	PLACE1001304	F-PLACE1001304	4181	R-PLACE1001304	9168
	PLACE1001311	F-PLACE1001311	4182	R-PLACE1001311	9169
	PLACE1001323	F-PLACE1001323	4183	R-PLACE1001323	9170
35	PLACE1001351	F-PLACE1001351	4184	R-PLACE1001351	9171
	PLACE1001366	F-PLACE1001366	4185	R-PLACE1001366	9172
	PLACE1001377	F-PLACE1001377	4186	R-PLACE1001377	9173
	PLACE1001383	F-PLACE1001383	4187	R-PLACE1001383	9174
40	PLACE1001384	F-PLACE1001384	4188	R-PLACE1001384	9175
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	PLACE1001395	F-PLACE1001395	4190	R-PLACE1001395	9177
	PLACE1001399	F-PLACE1001399	4191	R-PLACE1001399	9178
45	PLACE1001412	F-PLACE1001412	4192	R-PLACE1001412	9179
	PLACE1001414	F-PLACE1001414	4193	R-PLACE1001414	9180
	PLACE1001440	F-PLACE1001440	4194	R-PLACE1001440	9181
	PLACE1001456	F-PLACE1001456	4195	R-PLACE1001456	9182
50	PLACE1001468	F-PLACE1001468	4196	R-PLACE1001468	9183
	PLACE1001484	F-PLACE1001484	4197	R-PLACE1001484	9184
	PLACE1001502	F-PLACE1001502	4198	R-PLACE1001502	9185
	PLACE1001503	F-PLACE1001503	4199	R-PLACE1001503	9186
	PLACE1001517	F-PLACE1001517	4200	R-PLACE1001517	9187
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5	PLACE1001602	F-PLACE1001602	4205	R-PLACE1001602	9192
	PLACE1001603	F-PLACE1001603	4206	R-PLACE1001603	9193
	PLACE1001608	F-PLACE1001608	4207		
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10	PLACE1001611	F-PLACE1001611	4209	R-PLACE1001611	9195
	PLACE1001632	F-PLACE1001632	4210	R-PLACE1001632	9196
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15	PLACE1001672	F-PLACE1001672	4213	R-PLACE1001672	9199
	PLACE1001691	F-PLACE1001691	4214	R-PLACE1001691	9200
	PLACE1001692	F-PLACE1001692	4215	R-PLACE1001692	9201
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	PLACE1001729	F-PLACE1001729	4219	R-PLACE1001729	9205
	PLACE1001739	F-PLACE1001739	4220	R-PLACE1001739	9206
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30	PLACE1001761	F-PLACE1001761	4226	R-PLACE1001761	9212
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	PLACE1001799	F-PLACE1001799	4229	R-PLACE1001799	9215
35	PLACE1001810	F-PLACE1001810	4230		
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	PLACE1001821	F-PLACE1001821	4232	R-PLACE1001821	9217
	PLACE1001844	F-PLACE1001844	4233		
40	PLACE1001845	F-PLACE1001845	4234	R-PLACE1001845	9218
	PLACE1001869	F-PLACE1001869	4235	R-PLACE1001869	9219
	PLACE1001897	F-PLACE1001897	4236	R-PLACE1001897	9220
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	PLACE1001920	F-PLACE1001920	4238	R-PLACE1001920	9222
45	PLACE1001928	F-PLACE1001928	4239	R-PLACE1001928	9223
	PLACE1001983	F-PLACE1001983	4240	R-PLACE1001983	9224
	PLACE1001989	F-PLACE1001989	4241	R-PLACE1001989	9225
	PLACE1002004	F-PLACE1002004	4242		
50	PLACE1002046	F-PLACE1002046	4243	R-PLACE1002046	9226
	PLACE1002052	F-PLACE1002052	4244	R-PLACE1002052	9227
	PLACE1002066	F-PLACE1002066	4245	R-PLACE1002066	9228
	PLACE1002072	F-PLACE1002072	4246	R-PLACE1002072	9229
55	PLACE1002073	F-PLACE1002073	4247	R-PLACE1002073	9230

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	PLACE1002119	F-PLACE1002119	4250	R-PLACE1002119	9233
5	PLACE1002140	F-PLACE1002140	4251	R-PLACE1002140	9234
	PLACE1002150	F-PLACE1002150	4252	R-PLACE1002150	9235
	PLACE1002157	F-PLACE1002157	4253	R-PLACE1002157	9236
	PLACE1002163	F-PLACE1002163	4254	R-PLACE1002163	9237
10	PLACE1002170	F-PLACE1002170	4255		
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	PLACE1002205	F-PLACE1002205	4257	R-PLACE1002205	9239
	PLACE1002213	F-PLACE1002213	4258	R-PLACE1002213	9240
15	PLACE1002227	F-PLACE1002227	4259	R-PLACE1002227	9241
	PLACE1002256	F-PLACE1002256	4260	R-PLACE1002256	9242
	PLACE1002259	F-PLACE1002259	4261	R-PLACE1002259	9243
	PLACE1002319	F-PLACE1002319	4262	R-PLACE1002319	9244
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	PLACE1002399	F-PLACE1002399	4265	R-PLACE1002399	9247
	PLACE1002433	F-PLACE1002433	4266	R-PLACE1002433	9248
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25	PLACE1002438	F-PLACE1002438	4268	R-PLACE1002438	9250
	PLACE1002450	F-PLACE1002450	4269	R-PLACE1002450	9251
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30	PLACE1002477	F-PLACE1002477	4272	R-PLACE1002477	9254
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35	PLACE1002514	F-PLACE1002514	4276	R-PLACE1002514	9258
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40	PLACE1002571	F-PLACE1002571	4280	R-PLACE1002571	9262
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	PLACE1002583	F-PLACE1002583	4282	R-PLACE1002583	9264
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45	PLACE1002604	F-PLACE1002604	4285	R-PLACE1002604	9267
	PLACE1002625	F-PLACE1002625	4286	R-PLACE1002625	9268
	PLACE1002655	F-PLACE1002655	4287		
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50	PLACE1002685	F-PLACE1002685	4289	R-PLACE1002685	9270
	PLACE1002714	F-PLACE1002714	4290	R-PLACE1002714	9271
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55	PLACE1002772	F-PLACE1002772	4293	R-PLACE1002772	9274

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	PLACE1002794	F-PLACE1002794	4296	R-PLACE1002794	9276
5	PLACE1002811	F-PLACE1002811	4297	R-PLACE1002811	9277
	PLACE1002815	F-PLACE1002815	4298	R-PLACE1002815	9278
	PLACE1002816	F-PLACE1002816	4299	R-PLACE1002816	9279
	PLACE1002834	F-PLACE1002834	4300	R-PLACE1002834	9280
	PLACE1002839	F-PLACE1002839	4301	R-PLACE1002839	9281
10	PLACE1002851	F-PLACE1002851	4302	R-PLACE1002851	9282
	PLACE1002853	F-PLACE1002853	4303	R-PLACE1002853	9283
	PLACE1002881	F-PLACE1002881	4304	R-PLACE1002881	9284
	PLACE1002908	F-PLACE1002908	4305	R-PLACE1002908	9285
15	PLACE1002941	F-PLACE1002941	4306	R-PLACE1002941	9286
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	PLACE1002968	F-PLACE1002968	4308	R-PLACE1002968	9288
	PLACE1002991	F-PLACE1002991	4309	R-PLACE1002991	9289
20	PLACE1002993	F-PLACE1002993	4310	R-PLACE1002993	9290
	PLACE1002996	F-PLACE1002996	4311	R-PLACE1002996	9291
	PLACE1003025	F-PLACE1003025	4312	R-PLACE1003025	9292
	PLACE1003027	F-PLACE1003027	4313	R-PLACE1003027	9293
25	PLACE1003044	F-PLACE1003044	4314	R-PLACE1003044	9294
	PLACE1003045	F-PLACE1003045	4315		
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30	PLACE1003108	F-PLACE1003108	4318	R-PLACE1003108	9297
	PLACE1003136	F-PLACE1003136	4319	R-PLACE1003136	9298
	PLACE1003145	F-PLACE1003145	4320	R-PLACE1003145	9299
	PLACE1003153	F-PLACE1003153	4321	R-PLACE1003153	9300
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35	PLACE1003176	F-PLACE1003176	4323	R-PLACE1003176	9302
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40	PLACE1003238	F-PLACE1003238	4327	R-PLACE1003238	9306
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	PLACE1003256	F-PLACE1003256	4329	R-PLACE1003256	9308
	PLACE1003258	F-PLACE1003258	4330	R-PLACE1003258	9309
45	PLACE1003296	F-PLACE1003296	4331	R-PLACE1003296	9310
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	PLACE1003334	F-PLACE1003334	4333	R-PLACE1003334	9312
	PLACE1003342	F-PLACE1003342	4334	R-PLACE1003342	9313
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	PLACE1003361	F-PLACE1003361	4337	R-PLACE1003361	9316
	PLACE1003366	F-PLACE1003366	4338	R-PLACE1003366	9317
55	PLACE1003369	F-PLACE1003369	4339	R-PLACE1003369	9318

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	PLACE1003383	F-PLACE1003383	4342	R-PLACE1003383	9321
5	PLACE1003394	F-PLACE1003394	4343		
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	PLACE1003420	F-PLACE1003420	4345	R-PLACE1003420	9323
	PLACE1003454	F-PLACE1003454	4346	R-PLACE1003454	9324
10	PLACE1003478	F-PLACE1003478	4347	R-PLACE1003478	9325
	PLACE1003493	F-PLACE1003493	4348	R-PLACE1003493	9326
	PLACE1003516	F-PLACE1003516	4349	R-PLACE1003516	9327
	PLACE1003519	F-PLACE1003519	4350	R-PLACE1003519	9328
15	PLACE1003521	F-PLACE1003521	4351	R-PLACE1003521	9329
	PLACE1003528	F-PLACE1003528	4352	R-PLACE1003528	9330
	PLACE1003537	F-PLACE1003537	4353	R-PLACE1003537	9331
	PLACE1003553	F-PLACE1003553	4354	R-PLACE1003553	9332
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	PLACE1003583	F-PLACE1003583	4357	R-PLACE1003583	9335
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25	PLACE1003593	F-PLACE1003593	4360	R-PLACE1003593	9338
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30	PLACE1003611	F-PLACE1003611	4364	R-nnnnnnnnnnnnn	9342
	PLACE1003618	F-PLACE1003618	4365	R-PLACE1003618	9343
	PLACE1003625	F-PLACE1003625	4366	R-PLACE1003625	9344
	PLACE1003638	F-PLACE1003638	4367	R-PLACE1003638	9345
35	PLACE1003669	F-PLACE1003669	4368	R-PLACE1003669	9346
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	PLACE1003760	F-PLACE1003760	4374	R-PLACE1003760	9352
	PLACE1003762	F-PLACE1003762	4375	R-PLACE1003762	9353
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45	PLACE1003771	F-PLACE1003771	4377	R-PLACE1003771	9355
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	PLACE1003858	F-PLACE1003858	4383	R-PLACE1003858	9361
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55	PLACE1003870	F-PLACE1003870	4385	R-PLACE1003870	9363

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5	PLACE1003892	F-PLACE1003892	4389		
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	PLACE1003932	F-PLACE1003932	4394	R-PLACE1003932	9371
	PLACE1003936	F-PLACE1003936	4395	R-PLACE1003936	9372
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15	PLACE1004103	F-PLACE1004103	4397		
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	PLACE1004156	F-PLACE1004156	4403	R-PLACE1004156	9379
	PLACE1004161	F-PLACE1004161	4404	R-PLACE1004161	9380
25	PLACE1004183	F-PLACE1004183	4405	R-PLACE1004183	9381
	PLACE1004197	F-PLACE1004197	4406	R-PLACE1004197	9382
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30	PLACE1004256	F-PLACE1004256	4409	R-PLACE1004256	9385
	PLACE1004257	F-PLACE1004257	4410	R-PLACE1004257	9386
	PLACE1004258	F-PLACE1004258	4411	R-PLACE1004258	9387
	PLACE1004270	F-PLACE1004270	4412	R-PLACE1004270	9388
	PLACE1004274	F-PLACE1004274	4413	R-PLACE1004274	9389
35	PLACE1004277	F-PLACE1004277	4414	R-PLACE1004277	9390
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	PLACE1004302	F-PLACE1004302	4417	R-PLACE1004302	9393
40	PLACE1004316	F-PLACE1004316	4418	R-PLACE1004316	9394
	PLACE1004336	F-PLACE1004336	4419	R-PLACE1004336	9395
	PLACE1004358	F-PLACE1004358	4420	R-PLACE1004358	9396
	PLACE1004376	F-PLACE1004376	4421	R-PLACE1004376	9397
45	PLACE1004384	F-PLACE1004384	4422	R-PLACE1004384	9398
	PLACE1004388	F-PLACE1004388	4423	R-PLACE1004388	9399
	PLACE1004405	F-PLACE1004405	4424	R-PLACE1004405	9400
	PLACE1004425	F-PLACE1004425	4425	R-PLACE1004425	9401
50	PLACE1004428	F-PLACE1004428	4426	R-PLACE1004428	9402
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	PLACE1004451	F-PLACE1004451	4428	R-PLACE1004451	9404
	PLACE1004460	F-PLACE1004460	4429	R-PLACE1004460	9405
	PLACE1004467	F-PLACE1004467	4430	R-PLACE1004467	9406
55	PLACE1004471	F-PLACE1004471	4431	R-PLACE1004471	9407

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	PLACE1004491	F-PLACE1004491	4433	R-PLACE1004491	9409
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5	PLACE1004510	F-PLACE1004510	4435	R-PLACE1004510	9411
	PLACE1004516	F-PLACE1004516	4436	R-PLACE1004516	9412
	PLACE1004518	F-PLACE1004518	4437	R-PLACE1004518	9413
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10	PLACE1004550	F-PLACE1004550	4439	R-PLACE1004550	9415
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	PLACE1004629	F-PLACE1004629	4441	R-PLACE1004629	9417
	PLACE1004645	F-PLACE1004645	4442	R-PLACE1004645	9418
15	PLACE1004646	F-PLACE1004646	4443	R-PLACE1004646	9419
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	PLACE1004686	F-PLACE1004686	4449	R-PLACE1004686	9425
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25	PLACE1004716	F-PLACE1004716	4452	R-PLACE1004716	9428
	PLACE1004722	F-PLACE1004722	4453	R-PLACE1004722	9429
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30	PLACE1004743	F-PLACE1004743	4456	R-nnnnnnnnnnnnn	9432
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35	PLACE1004793	F-PLACE1004793	4460	R-PLACE1004793	9436
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	PLACE1004836	F-PLACE1004836	4467	R-PLACE1004836	9443
	PLACE1004838	F-PLACE1004838	4468	R-PLACE1004838	9444
45	PLACE1004840	F-PLACE1004840	4469	R-PLACE1004840	9445
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5	PLACE1004979	F-PLACE1004979	4481	R-PLACE1004979	9457
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	PLACE1005055	F-PLACE1005055	4488		
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30	PLACE1005187	F-PLACE1005187	4502	R-PLACE1005187	9477
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45	PLACE1005335	F-PLACE1005335	4515	R-PLACE1005335	9490
	PLACE1005373	F-PLACE1005373	4516	R-PLACE1005373	9491
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15	PLACE1006040	F-PLACE1006040	4581	R-PLACE1006040	9554
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25	PLACE1006164	F-PLACE1006164	4589	R-PLACE1006164	9562
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10	PLACE1006521	F-PLACE1006521	4623	R-PLACE1006521	9595
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55	PLACE1006961	F-PLACE1006961	4660	R-PLACE1006961	9631
	PLACE1006962	F-PLACE1006962	4661	R-PLACE1006962	9632

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35	PLACE1007346	F-PLACE1007346	4689	R-PLACE1007346	9659
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45	PLACE1007454	F-PLACE1007454	4698		
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	PLACE1007484	F-PLACE1007484	4701	R-PLACE1007484	9670
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	PLACE1007511	F-PLACE1007511	4704	R-PLACE1007511	9673
	PLACE1007524	F-PLACE1007524	4705	R-PLACE1007524	9674
55	PLACE1007525	F-PLACE1007525	4706	R-PLACE1007525	9675
	PLACE1007537	F-PLACE1007537	4707		

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10	PLACE1011054	F-PLACE1011054	4991	R-PLACE1011054	9951
	PLACE1011056	F-PLACE1011056	4992	R-PLACE1011056	9952
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15	PLACE1011109	F-PLACE1011109	4995	R-PLACE1011109	9955
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	PLACE1011143	F-PLACE1011143	4998	R-PLACE1011143	9958
20	PLACE1011160	F-PLACE1011160	4999	R-PLACE1011160	9959
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	PLACE1011203	F-PLACE1011203	5002	R-PLACE1011203	9962
25	PLACE1011214	F-PLACE1011214	5003		
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30	PLACE1011263	F-PLACE1011263	5007	R-PLACE1011263	9966
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	PLACE1011503	F-PLACE1011503	5025	R-PLACE1011503	9982
	PLACE1011520	F-PLACE1011520	5026	R-PLACE1011520	9983
	PLACE1011563	F-PLACE1011563	5027	R-PLACE1011563	9984
55	PLACE1011567	F-PLACE1011567	5028	R-PLACE1011567	9985
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5	PLACE1011643	F-PLACE1011643	5033	R-PLACE1011643	9990
	PLACE1011646	F-PLACE1011646	5034		
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10	PLACE1011664	F-PLACE1011664	5037	R-PLACE1011664	9993
	PLACE1011675	F-PLACE1011675	5038	R-PLACE1011675	9994
	PLACE1011682	F-PLACE1011682	5039	R-PLACE1011682	9995
	PLACE1011719	F-PLACE1011719	5040	R-PLACE1011719	9996
15	PLACE1011725	F-PLACE1011725	5041	R-PLACE1011725	9997
	PLACE1011729	F-PLACE1011729	5042	R-PLACE1011729	9998
	PLACE1011749	F-PLACE1011749	5043	R-PLACE1011749	9999
	PLACE1011762	F-PLACE1011762	5044	R-PLACE1011762	10000
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25	PLACE1011875	F-PLACE1011875	5049	R-PLACE1011875	10005
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	PLACE2000014	F-PLACE2000014	5063		
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	PLACE2000017	F-PLACE2000017	5065	R-PLACE2000017	10019
45	PLACE2000021	F-PLACE2000021	5066	R-PLACE2000021	10020
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50	PLACE2000039	F-PLACE2000039	5070	R-PLACE2000039	10023
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	PLACE2000061	F-PLACE2000061	5073	R-PLACE2000061	10026
55	PLACE2000062	F-PLACE2000062	5074	R-PLACE2000062	10027
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5	PLACE2000111	F-PLACE2000111	5079	R-PLACE2000111	10032
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55	PLACE2000455	F-PLACE2000455	5120	R-PLACE2000455	10071
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5	PLACE3000009	F-PLACE3000009	5125		
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	PLACE3000119	F-PLACE3000119	5131	R-PLACE3000119	10080
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40	PLACE3000230	F-PLACE3000230	5154	R-PLACE3000230	10100
	PLACE3000242	F-PLACE3000242	5155	R-PLACE3000242	10101
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	PLACE3000254	F-PLACE3000254	5157	R-PLACE3000254	10103
45	PLACE3000271	F-PLACE3000271	5158	R-PLACE3000271	10104
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	PLACE3000304	F-PLACE3000304	5160	R-PLACE3000304	10106
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55	PLACE3000341	F-PLACE3000341	5166	R-PLACE3000341	10112
	PLACE3000350	F-PLACE3000350	5167	R-PLACE3000350	10113

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5	PLACE3000363	F-PLACE3000363	5171	R-PLACE3000363	10117
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15	PLACE3000405	F-PLACE3000405	5179	R-PLACE3000405	10125
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25	PLACE4000009	F-PLACE4000009	5187	R-PLACE4000009	10133
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	PLACE4000252	F-PLACE4000252	5209	R-PLACE4000252	10152
	PLACE4000259	F-PLACE4000259	5210		
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55	PLACE4000269	F-PLACE4000269	5212	R-PLACE4000269	10154
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5	PLACE4000326	F-PLACE4000326	5217	R-PLACE4000326	10159
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40	SKNMC1000013	F-SKNMC1000013	5246		
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	SKNMC1000050	F-SKNMC1000050	5248		
	SKNMC1000091	F-SKNMC1000091	5249		
45	THYRO1000017	F-THYRO1000017	5250		
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	THYRO1000034	F-THYRO1000034	5252	R-THYRO1000034	10176
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50	THYRO1000040	F-THYRO1000040	5254	R-THYRO1000040	10178
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	THYRO1000072	F-THYRO1000072	5256	R-THYRO1000072	10180
	THYRO1000085	F-THYRO1000085	5257	R-THYRO1000085	10181
	THYRO1000092	F-THYRO1000092	5258	R-THYRO1000092	10182
55	THYRO1000107	F-THYRO1000107	5259	R-THYRO1000107	10183

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5	THYRO1000129	F-THYRO1000129	5263	R-THYRO1000129	10187
	THYRO1000132	F-THYRO1000132	5264	R-THYRO1000132	10188
	THYRO1000156	F-THYRO1000156	5265	R-THYRO1000156	10189
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10	THYRO1000173	F-THYRO1000173	5267	R-THYRO1000173	10191
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	THYRO1000187	F-THYRO1000187	5269	R-THYRO1000187	10193
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	THYRO1000221	F-THYRO1000221	5274	R-THYRO1000221	10198
20	THYRO1000241	F-THYRO1000241	5275	R-THYRO1000241	10199
	THYRO1000242	F-THYRO1000242	5276	R-THYRO1000242	10200
	THYRO1000253	F-THYRO1000253	5277	R-THYRO1000253	10201
	THYRO1000270	F-THYRO1000270	5278	R-THYRO1000270	10202
25	THYRO1000279	F-THYRO1000279	5279	R-THYRO1000279	10203
	THYRO1000288	F-THYRO1000288	5280	R-THYRO1000288	10204
	THYRO1000320	F-THYRO1000320	5281	R-THYRO1000320	10205
	THYRO1000327	F-THYRO1000327	5282	R-THYRO1000327	10206
30	THYRO1000343	F-THYRO1000343	5283	R-THYRO1000343	10207
	THYRO1000358	F-THYRO1000358	5284	R-THYRO1000358	10208
	THYRO1000368	F-THYRO1000368	5285	R-THYRO1000368	10209
	THYRO1000381	F-THYRO1000381	5286	R-nnnnnnnnnnnnn	10210
35	THYRO1000387	F-THYRO1000387	5287	R-THYRO1000387	10211
	THYRO1000394	F-THYRO1000394	5288	R-THYRO1000394	10212
	THYRO1000395	F-THYRO1000395	5289	R-THYRO1000395	10213
	THYRO1000401	F-THYRO1000401	5290	R-THYRO1000401	10214
40	THYRO1000438	F-THYRO1000438	5291	R-THYRO1000438	10215
	THYRO1000452	F-THYRO1000452	5292	R-THYRO1000452	10216
	THYRO1000471	F-THYRO1000471	5293	R-THYRO1000471	10217
	THYRO1000484	F-THYRO1000484	5294	R-THYRO1000484	10218
	THYRO1000488	F-THYRO1000488	5295	R-THYRO1000488	10219
45	THYRO1000501	F-THYRO1000501	5296	R-THYRO1000501	10220
	THYRO1000502	F-THYRO1000502	5297	R-THYRO1000502	10221
	THYRO1000505	F-THYRO1000505	5298	R-THYRO1000505	10222
	THYRO1000558	F-THYRO1000558	5299	R-THYRO1000558	10223
50	THYRO1000569	F-THYRO1000569	5300	R-THYRO1000569	10224
	THYRO1000570	F-THYRO1000570	5301	R-THYRO1000570	10225
	THYRO1000585	F-THYRO1000585	5302	R-nnnnnnnnnnnnn	10226
	THYRO1000596	F-THYRO1000596	5303	R-THYRO1000596	10227
55	THYRO1000602	F-THYRO1000602	5304	R-THYRO1000602	10228
	THYRO1000605	F-THYRO1000605	5305	R-THYRO1000605	10229

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	THYRO1000625	F-THYRO1000625	5306	R-THYRO1000625	10230
	THYRO1000637	F-THYRO1000637	5307	R-THYRO1000637	10231
	THYRO1000641	F-THYRO1000641	5308	R-THYRO1000641	10232
5	THYRO1000658	F-THYRO1000658	5309	R-THYRO1000658	10233
	THYRO1000662	F-THYRO1000662	5310	R-nnnnnnnnnnnnn	10234
	THYRO1000666	F-THYRO1000666	5311	R-THYRO1000666	10235
	THYRO1000676	F-THYRO1000676	5312	R-THYRO1000676	10236
10	THYRO1000684	F-THYRO1000684	5313	R-THYRO1000684	10237
	THYRO1000699	F-THYRO1000699	5314	R-THYRO1000699	10238
	THYRO1000712	F-THYRO1000712	5315	R-THYRO1000712	10239
	THYRO1000715	F-THYRO1000715	5316		
15	THYRO1000734	F-THYRO1000734	5317	R-THYRO1000734	10240
	THYRO1000748	F-THYRO1000748	5318	R-THYRO1000748	10241
	THYRO1000756	F-THYRO1000756	5319	R-THYRO1000756	10242
	THYRO1000777	F-THYRO1000777	5320	R-THYRO1000777	10243
20	THYRO1000783	F-THYRO1000783	5321	R-THYRO1000783	10244
	THYRO1000787	F-THYRO1000787	5322	R-THYRO1000787	10245
	THYRO1000793	F-THYRO1000793	5323	R-THYRO1000793	10246
	THYRO1000796	F-THYRO1000796	5324	R-THYRO1000796	10247
25	THYRO1000805	F-THYRO1000805	5325	R-THYRO1000805	10248
	THYRO1000815	F-THYRO1000815	5326	R-THYRO1000815	10249
	THYRO1000829	F-THYRO1000829	5327	R-THYRO1000829	10250
	THYRO1000843	F-THYRO1000843	5328	R-THYRO1000843	10251
30	THYRO1000852	F-THYRO1000852	5329	R-THYRO1000852	10252
	THYRO1000855	F-THYRO1000855	5330	R-THYRO1000855	10253
	THYRO1000865	F-THYRO1000865	5331	R-THYRO1000865	10254
	THYRO1000895	F-THYRO1000895	5332	R-THYRO1000895	10255
35	THYRO1000916	F-THYRO1000916	5333	R-THYRO1000916	10256
	THYRO1000926	F-THYRO1000926	5334	R-THYRO1000926	10257
	THYRO1000934	F-THYRO1000934	5335	R-THYRO1000934	10258
	THYRO1000951	F-THYRO1000951	5336	R-THYRO1000951	10259
	THYRO1000952	F-THYRO1000952	5337	R-THYRO1000952	10260
40	THYRO1000974	F-THYRO1000974	5338	R-THYRO1000974	10261
	THYRO1000975	F-THYRO1000975	5339	R-THYRO1000975	10262
	THYRO1000983	F-THYRO1000983	5340	R-THYRO1000983	10263
	THYRO1000984	F-THYRO1000984	5341	R-THYRO1000984	10264
45	THYRO1000988	F-THYRO1000988	5342	R-THYRO1000988	10265
	THYRO1001003	F-THYRO1001003	5343	R-THYRO1001003	10266
	THYRO1001031	F-THYRO1001031	5344	R-THYRO1001031	10267
	THYRO1001033	F-THYRO1001033	5345	R-THYRO1001033	10268
50	THYRO1001062	F-THYRO1001062	5346	R-THYRO1001062	10269
	THYRO1001093	F-THYRO1001093	5347	R-THYRO1001093	10270
	THYRO1001100	F-THYRO1001100	5348	R-THYRO1001100	10271
	THYRO1001120	F-THYRO1001120	5349	R-THYRO1001120	10272
	THYRO1001121	F-THYRO1001121	5350	R-THYRO1001121	10273
55	THYRO1001133	F-THYRO1001133	5351	R-THYRO1001133	10274

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	THYRO1001134	F-THYRO1001134	5352	R-THYRO1001134	10275
	THYRO1001142	F-THYRO1001142	5353	R-THYRO1001142	10276
	THYRO1001173	F-THYRO1001173	5354	R-THYRO1001173	10277
5	THYRO1001177	F-THYRO1001177	5355	R-THYRO1001177	10278
	THYRO1001189	F-THYRO1001189	5356	R-THYRO1001189	10279
	THYRO1001204	F-THYRO1001204	5357	R-THYRO1001204	10280
	THYRO1001213	F-THYRO1001213	5358	R-THYRO1001213	10281
10	THYRO1001262	F-THYRO1001262	5359	R-THYRO1001262	10282
	THYRO1001271	F-THYRO1001271	5360	R-THYRO1001271	10283
	THYRO1001287	F-THYRO1001287	5361		
	THYRO1001290	F-THYRO1001290	5362	R-THYRO1001290	10284
15	THYRO1001313	F-THYRO1001313	5363	R-THYRO1001313	10285
	THYRO1001320	F-THYRO1001320	5364	R-THYRO1001320	10286
	THYRO1001321	F-THYRO1001321	5365	R-THYRO1001321	10287
	THYRO1001322	F-THYRO1001322	5366	R-nnnnnnnnnnnnn	10288
20	THYRO1001347	F-THYRO1001347	5367	R-THYRO1001347	10289
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	THYRO1001365	F-THYRO1001365	5369	R-THYRO1001365	10291
	THYRO1001374	F-THYRO1001374	5370	R-THYRO1001374	10292
25	THYRO1001401	F-THYRO1001401	5371	R-THYRO1001401	10293
	THYRO1001403	F-THYRO1001403	5372	R-THYRO1001403	10294
	THYRO1001405	F-THYRO1001405	5373	R-THYRO1001405	10295
	THYRO1001406	F-THYRO1001406	5374	R-THYRO1001406	10296
	THYRO1001411	F-THYRO1001411	5375	R-THYRO1001411	10297
30	THYRO1001426	F-THYRO1001426	5376	R-THYRO1001426	10298
	THYRO1001434	F-THYRO1001434	5377	R-THYRO1001434	10299
	THYRO1001458	F-THYRO1001458	5378	R-THYRO1001458	10300
	THYRO1001480	F-THYRO1001480	5379	R-THYRO1001480	10301
35	THYRO1001487	F-THYRO1001487	5380	R-THYRO1001487	10302
	THYRO1001534	F-THYRO1001534	5381	R-THYRO1001534	10303
	THYRO1001537	F-THYRO1001537	5382	R-THYRO1001537	10304
	THYRO1001541	F-THYRO1001541	5383	R-THYRO1001541	10305
40	THYRO1001559	F-THYRO1001559	5384	R-THYRO1001559	10306
	THYRO1001570	F-THYRO1001570	5385	R-THYRO1001570	10307
	THYRO1001573	F-THYRO1001573	5386	R-THYRO1001573	10308
	THYRO1001584	F-THYRO1001584	5387	R-THYRO1001584	10309
45	THYRO1001595	F-THYRO1001595	5388	R-THYRO1001595	10310
	THYRO1001602	F-THYRO1001602	5389	R-THYRO1001602	10311
	THYRO1001605	F-THYRO1001605	5390	R-THYRO1001605	10312
	THYRO1001617	F-THYRO1001617	5391	R-THYRO1001617	10313
50	THYRO1001637	F-THYRO1001637	5392	R-THYRO1001637	10314
	THYRO1001656	F-THYRO1001656	5393	R-THYRO1001656	10315
	THYRO1001661	F-THYRO1001661	5394	R-THYRO1001661	10316
	THYRO1001671	F-THYRO1001671	5395	R-THYRO1001671	10317
55	THYRO1001673	F-THYRO1001673	5396	R-THYRO1001673	10318
	THYRO1001703	F-THYRO1001703	5397	R-THYRO1001703	10319

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	THYRO1001706	F-THYRO1001706	5398	R-THYRO1001706	10320
	THYRO1001721	F-THYRO1001721	5399	R-THYRO1001721	10321
	THYRO1001738	F-THYRO1001738	5400	R-nnnnnnnnnnnnn	10322
5	THYRO1001745	F-THYRO1001745	5401	R-THYRO1001745	10323
	THYRO1001746	F-THYRO1001746	5402	R-THYRO1001746	10324
	THYRO1001772	F-THYRO1001772	5403	R-THYRO1001772	10325
	THYRO1001793	F-THYRO1001793	5404	R-THYRO1001793	10326
10	THYRO1001809	F-THYRO1001809	5405	R-THYRO1001809	10327
	THYRO1001828	F-THYRO1001828	5406		
	THYRO1001854	F-THYRO1001854	5407	R-THYRO1001854	10328
	THYRO1001895	F-THYRO1001895	5408	R-THYRO1001895	10329
15	THYRO1001907	F-THYRO1001907	5409	R-THYRO1001907	10330
	VESEN1000122	F-VESEN1000122	5410	R-VESEN1000122	10331
	Y79AA1000013	F-Y79AA1000013	5411	R-Y79AA1000013	10332
	Y79AA1000033	F-Y79AA1000033	5412	R-Y79AA1000033	10333
20	Y79AA1000037	F-Y79AA1000037	5413	R-Y79AA1000037	10334
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	Y79AA1000065	F-Y79AA1000065	5415	R-Y79AA1000065	10336
	Y79AA1000131	F-Y79AA1000131	5416	R-Y79AA1000131	10337
	Y79AA1000181	F-Y79AA1000181	5417	R-Y79AA1000181	10338
25	Y79AA1000202	F-Y79AA1000202	5418	R-Y79AA1000202	10339
	Y79AA1000214	F-Y79AA1000214	5419	R-Y79AA1000214	10340
	Y79AA1000230	F-Y79AA1000230	5420	R-Y79AA1000230	10341
	Y79AA1000231	F-Y79AA1000231	5421	R-Y79AA1000231	10342
30	Y79AA1000258	F-Y79AA1000258	5422	R-Y79AA1000258	10343
	Y79AA1000268	F-Y79AA1000268	5423	R-Y79AA1000268	10344
	Y79AA1000313	F-Y79AA1000313	5424	R-Y79AA1000313	10345
	Y79AA1000328	F-Y79AA1000328	5425	R-Y79AA1000328	10346
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	Y79AA1000346	F-Y79AA1000346	5427	R-Y79AA1000346	10348
	Y79AA1000349	F-Y79AA1000349	5428	R-Y79AA1000349	10349
	Y79AA1000355	F-Y79AA1000355	5429	R-Y79AA1000355	10350
40	Y79AA1000368	F-Y79AA1000368	5430	R-Y79AA1000368	10351
	Y79AA1000405	F-Y79AA1000405	5431	R-Y79AA1000405	10352
	Y79AA1000410	F-Y79AA1000410	5432	R-Y79AA1000410	10353
	Y79AA1000420	F-Y79AA1000420	5433	R-Y79AA1000420	10354
45	Y79AA1000469	F-Y79AA1000469	5434	R-Y79AA1000469	10355
	Y79AA1000480	F-Y79AA1000480	5435	R-Y79AA1000480	10356
	Y79AA1000538	F-Y79AA1000538	5436	R-Y79AA1000538	10357
	Y79AA1000539	F-Y79AA1000539	5437	R-Y79AA1000539	10358
	Y79AA1000540	F-Y79AA1000540	5438	R-Y79AA1000540	10359
50	Y79AA1000560	F-Y79AA1000560	5439	R-Y79AA1000560	10360
	Y79AA1000574	F-Y79AA1000574	5440	R-Y79AA1000574	10361
	Y79AA1000589	F-Y79AA1000589	5441		
	Y79AA1000627	F-Y79AA1000627	5442	R-Y79AA1000627	10362
55	Y79AA1000705	F-Y79AA1000705	5443	R-Y79AA1000705	10363

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	Y79AA1000734	F-Y79AA1000734	5444	R-Y79AA1000734	10364
	Y79AA1000748	F-Y79AA1000748	5445	R-Y79AA1000748	10365
	Y79AA1000752	F-Y79AA1000752	5446	R-Y79AA1000752	10366
5	Y79AA1000774	F-Y79AA1000774	5447	R-Y79AA1000774	10367
	Y79AA1000782	F-Y79AA1000782	5448	R-Y79AA1000782	10368
	Y79AA1000784	F-Y79AA1000784	5449	R-Y79AA1000784	10369
	Y79AA1000794	F-Y79AA1000794	5450	R-Y79AA1000794	10370
10	Y79AA1000800	F-Y79AA1000800	5451	R-Y79AA1000800	10371
	Y79AA1000802	F-Y79AA1000802	5452	R-nnnnnnnnnnnnn	10372
	Y79AA1000805	F-Y79AA1000805	5453	R-Y79AA1000805	10373
	Y79AA1000824	F-Y79AA1000824	5454	R-Y79AA1000824	10374
15	Y79AA1000827	F-Y79AA1000827	5455	R-Y79AA1000827	10375
	Y79AA1000833	F-Y79AA1000833	5456		
	Y79AA1000850	F-Y79AA1000850	5457	R-Y79AA1000850	10376
	Y79AA1000962	F-Y79AA1000962	5458	R-Y79AA1000962	10377
20	Y79AA1000966	F-Y79AA1000966	5459		
	Y79AA1000968	F-Y79AA1000968	5460	R-Y79AA1000968	10378
	Y79AA1000969	F-Y79AA1000969	5461	R-Y79AA1000969	10379
	Y79AA1000976	F-Y79AA1000976	5462	R-Y79AA1000976	10380
25	Y79AA1000985	F-Y79AA1000985	5463	R-Y79AA1000985	10381
	Y79AA1001023	F-Y79AA1001023	5464	R-Y79AA1001023	10382
	Y79AA1001041	F-Y79AA1001041	5465	R-Y79AA1001041	10383
	Y79AA1001048	F-Y79AA1001048	5466	R-Y79AA1001048	10384
30	Y79AA1001061	F-Y79AA1001061	5467	R-Y79AA1001061	10385
	Y79AA1001068	F-Y79AA1001068	5468	R-Y79AA1001068	10386
	Y79AA1001077	F-Y79AA1001077	5469	R-Y79AA1001077	10387
	Y79AA1001078	F-Y79AA1001078	5470	R-Y79AA1001078	10388
35	Y79AA1001105	F-Y79AA1001105	5471	R-Y79AA1001105	10389
	Y79AA1001145	F-Y79AA1001145	5472	R-Y79AA1001145	10390
	Y79AA1001167	F-Y79AA1001167	5473	R-Y79AA1001167	10391
	Y79AA1001177	F-Y79AA1001177	5474	R-Y79AA1001177	10392
40	Y79AA1001185	F-Y79AA1001185	5475	R-Y79AA1001185	10393
	Y79AA1001211	F-Y79AA1001211	5476	R-Y79AA1001211	10394
	Y79AA1001216	F-Y79AA1001216	5477	R-Y79AA1001216	10395
	Y79AA1001228	F-Y79AA1001228	5478	R-Y79AA1001228	10396
45	Y79AA1001233	F-Y79AA1001233	5479	R-Y79AA1001233	10397
	Y79AA1001236	F-Y79AA1001236	5480	R-Y79AA1001236	10398
	Y79AA1001281	F-Y79AA1001281	5481	R-Y79AA1001281	10399
	Y79AA1001299	F-Y79AA1001299	5482	R-Y79AA1001299	10400
50	Y79AA1001312	F-Y79AA1001312	5483	R-Y79AA1001312	10401
	Y79AA1001323	F-Y79AA1001323	5484	R-Y79AA1001323	10402
	Y79AA1001384	F-Y79AA1001384	5485	R-Y79AA1001384	10403
	Y79AA1001391	F-Y79AA1001391	5486	R-Y79AA1001391	10404
55	Y79AA1001394	F-Y79AA1001394	5487	R-Y79AA1001394	10405
	Y79AA1001402	F-Y79AA1001402	5488	R-Y79AA1001402	10406
	Y79AA1001493	F-Y79AA1001493	5489	R-Y79AA1001493	10407

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	Y79AA1001511	F-Y79AA1001511	5490	R-Y79AA1001511	10408
	Y79AA1001533	F-Y79AA1001533	5491	R-Y79AA1001533	10409
	Y79AA1001541	F-Y79AA1001541	5492	R-nnnnnnnnnnnnn	10410
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	Y79AA1001555	F-Y79AA1001555	5494	R-Y79AA1001555	10412
	Y79AA1001581	F-Y79AA1001581	5495		
	Y79AA1001585	F-Y79AA1001585	5496	R-Y79AA1001585	10413
10	Y79AA1001594	F-Y79AA1001594	5497	R-Y79AA1001594	10414
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	Y79AA1001613	F-Y79AA1001613	5499	R-Y79AA1001613	10416
	Y79AA1001647	F-Y79AA1001647	5500	R-Y79AA1001647	10417
15	Y79AA1001665	F-Y79AA1001665	5501	R-Y79AA1001665	10418
	Y79AA1001679	F-Y79AA1001679	5502	R-Y79AA1001679	10419
	Y79AA1001692	F-Y79AA1001692	5503	R-nnnnnnnnnnnnn	10420
	Y79AA1001696	F-Y79AA1001696	5504	R-Y79AA1001696	10421
20	Y79AA1001705	F-Y79AA1001705	5505	R-Y79AA1001705	10422
	Y79AA1001711	F-Y79AA1001711	5506	R-Y79AA1001711	10423
	Y79AA1001781	F-Y79AA1001781	5507	R-Y79AA1001781	10424
	Y79AA1001805	F-Y79AA1001805	5508	R-nnnnnnnnnnnnn	10425
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	Y79AA1001846	F-Y79AA1001846	5510	R-Y79AA1001846	10427
	Y79AA1001848	F-Y79AA1001848	5511	R-Y79AA1001848	10428
	Y79AA1001866	F-Y79AA1001866	5512	R-Y79AA1001866	10429
30	Y79AA1001874	F-Y79AA1001874	5513	R-Y79AA1001874	10430
	Y79AA1001875	F-Y79AA1001875	5514	R-Y79AA1001875	10431
	Y79AA1001923	F-Y79AA1001923	5515	R-Y79AA1001923	10432
	Y79AA1001963	F-Y79AA1001963	5516		
35	Y79AA1002027	F-Y79AA1002027	5517	R-Y79AA1002027	10433
	Y79AA1002083	F-Y79AA1002083	5518	R-Y79AA1002083	10434
	Y79AA1002089	F-Y79AA1002089	5519	R-Y79AA1002089	10435
	Y79AA1002093	F-Y79AA1002093	5520	R-Y79AA1002093	10436
40	Y79AA1002103	F-Y79AA1002103	5521	R-Y79AA1002103	10437
	Y79AA1002115	F-Y79AA1002115	5522	R-Y79AA1002115	10438
	Y79AA1002125	F-Y79AA1002125	5523	R-Y79AA1002125	10439
	Y79AA1002139	F-Y79AA1002139	5524	R-Y79AA1002139	10440
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	Y79AA1002208	F-Y79AA1002208	5526	R-nnnnnnnnnnnnn	10442
	Y79AA1002209	F-Y79AA1002209	5527	R-Y79AA1002209	10443
	Y79AA1002210	F-Y79AA1002210	5528	R-Y79AA1002210	10444
50	Y79AA1002211	F-Y79AA1002211	5529	R-Y79AA1002211	10445
	Y79AA1002220	F-Y79AA1002220	5530	R-Y79AA1002220	10446
	Y79AA1002229	F-Y79AA1002229	5531	R-Y79AA1002229	10447
	Y79AA1002234	F-Y79AA1002234	5532	R-Y79AA1002234	10448
55	Y79AA1002246	F-Y79AA1002246	5533	R-Y79AA1002246	10449
	Y79AA1002258	F-Y79AA1002258	5534	R-Y79AA1002258	10450
	Y79AA1002298	F-Y79AA1002298	5535	R-Y79AA1002298	10451

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	Y79AA1002307	F-Y79AA1002307	5536	R-Y79AA1002307	10452
	Y79AA1002311	F-Y79AA1002311	5537	R-Y79AA1002311	10453
	Y79AA1002351	F-Y79AA1002351	5538	R-Y79AA1002351	10454
5	Y79AA1002361	F-Y79AA1002361	5539	R-Y79AA1002361	10455
	Y79AA1002399	F-Y79AA1002399	5540	R-Y79AA1002399	10456
	Y79AA1002407	F-Y79AA1002407	5541	R-Y79AA1002407	10457
10	Y79AA1002416	F-Y79AA1002416	5542	R-Y79AA1002416	10458
	Y79AA1002431	F-Y79AA1002431	5543	R-Y79AA1002431	10459
	Y79AA1002433	F-Y79AA1002433	5544	R-nnnnnnnnnnnn	10460
	Y79AA1002472	F-Y79AA1002472	5545	R-Y79AA1002472	10461
15	Y79AA1002482	F-Y79AA1002482	5546	R-Y79AA1002482	10462
	Y79AA1002487	F-Y79AA1002487	5547	R-Y79AA1002487	10463

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Table 2

	name of clone	name of 5'-end sequence	SEQ ID of 5'-end sequence	name of 3'-end sequence	SEQ ID of 3'-end sequence
5					
10					
15					
20					
25					
30					
35					
40					
45					
50					
55					
	HEMBA1000497	F-HEMBA1000497	16111	R-HEMBA1000497	16165
	HEMBA1001750	F-HEMBA1001750	16112	R-HEMBA1001750	16166
	HEMBA1003854	F-HEMBA1003854	16113	R-HEMBA1003854	16167
	HEMBA1004193	F-HEMBA1004193	16114	R-HEMBA1004193	16168
	HEMBA1004860	F-HEMBA1004860	16115	R-HEMBA1004860	16169
	HEMBA1005572	F-HEMBA1005572	16116	R-HEMBA1005572	16170
	HEMBA1006038	F-HEMBA1006038	16117	R-HEMBA1006038	16171
	HEMBA1006092	F-HEMBA1006092	16118	R-HEMBA1006092	16172
	HEMBA1006406	F-HEMBA1006406	16119	R-HEMBA1006406	16173
	HEMBA1006650	F-HEMBA1006650	16120	R-HEMBA1006650	16174
	HEMBA1006812	F-HEMBA1006812	16121	R-HEMBA1006812	16175
	HEMBA100672	F-HEMBA100672	16122	R-HEMBA100672	16176
	HEMBA1001197	F-HEMBA1001197	16123	R-HEMBA1001197	16177
	HEMBA1001871	F-HEMBA1001871	16124	R-HEMBA1001871	16178
	MAMMA1001252	F-MAMMA1001252	16125	R-MAMMA1001252	16179
	MAMMA1002094	F-MAMMA1002094	16126	R-MAMMA1002094	16180
	NT2RM4000634	F-NT2RM4000634	16127	R-NT2RM4000634	16181
	NT2RM4000657	F-NT2RM4000657	16128	R-NT2RM4000657	16182
	NT2RM4000783	F-NT2RM4000783	16129	R-NT2RM4000783	16183
	NT2RM4000857	F-NT2RM4000857	16130	R-NT2RM4000857	16184
	NT2RM4001178	F-NT2RM4001178	16131	R-NT2RM4001178	16185
	NT2RM4002420	F-NT2RM4002420	16132	R-NT2RM4002420	16186
	NT2RP2000198	F-NT2RP2000198	16133	R-NT2RP2000198	16187
	NT2RP2000551	F-NT2RP2000551	16134	R-NT2RP2000551	16188
	NT2RP2000660	F-NT2RP2000660	16135	R-NT2RP2000660	16189

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	NT2RP2001214	F-NT2RP2001214	16136	R-NT2RP2001214	16190
	NT2RP2001460	F-NT2RP2001460	16137	R-NT2RP2001460	16191
5	NT2RP2001756	F-NT2RP2001756	16138	R-NT2RP2001756	16192
	NT2RP2002056	F-NT2RP2002056	16139	R-NT2RP2002056	16193
	NT2RP2002677	F-NT2RP2002677	16140	R-NT2RP2002677	16194
	NT2RP2002755	F-NT2RP2002755	16141	R-NT2RP2002755	16195
10	NT2RP2002843	F-NT2RP2002843	16142	R-NT2RP2002843	16196
	NT2RP2003101	F-NT2RP2003101	16143	R-NT2RP2003101	16197
	NT2RP2003799	F-NT2RP2003799	16144	R-NT2RP2003799	16198
	NT2RP2004095	F-NT2RP2004095	16145	R-NT2RP2004095	16199
15	NT2RP2004732	F-NT2RP2004732	16146	R-NT2RP2004732	16200
	NT2RP2004920	F-NT2RP2004920	16147	R-NT2RP2004920	16201
	NT2RP2005454	F-NT2RP2005454	16148	R-NT2RP2005454	16202
20	NT2RP2005776	F-NT2RP2005776	16149	R-NT2RP2005776	16203
	NT2RP2005806	F-NT2RP2005806	16150	R-NT2RP2005806	16204
	NT2RP2005882	F-NT2RP2005882	16151	R-NT2RP2005882	16205
	NT2RP3001282	F-NT2RP3001282	16152	R-NT2RP3001282	16206
25	NT2RP3001723	F-NT2RP3001723	16153	R-NT2RP3001723	16207
	NT2RP3002099	F-NT2RP3002099	16154	R-NT2RP3002099	16208
	NT2RP3003155	F-NT2RP3003155	16155	R-NT2RP3003155	16209
	NT2RP3004028	F-NT2RP3004028	16156	R-NT2RP3004028	16210
30	OVARC1000008	F-OVARC1000008	16157	R-OVARC1000008	16211
	OVARC1000724	F-OVARC1000724	16158	R-OVARC1000724	16212
	OVARC1000751	F-OVARC1000751	16159	R-OVARC1000751	16213
35	OVARC1001029	F-OVARC1001029	16160	R-OVARC1001029	16214
	PLACE1000814	F-PLACE1000814	16161	R-PLACE1000814	16215
	PLACE1003030	F-PLACE1003030	16162	R-PLACE1003030	16216
	PLACE1005549	F-PLACE1005549	16163	R-PLACE1005549	16217
40	PLACE1007218	F-PLACE1007218	16164	R-PLACE1007218	16218

Furthermore, the present invention relates to the use of the above primers, as described below.

- (4) A polynucleotide which can be synthesized with the primer set of (2) or (3).
- (5) A polynucleotide comprising a coding region in the polynucleotide of (4).
- (6) A substantially pure protein encoded by polynucleotide of (4).
- (7) A partial peptide of the protein of (6).

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In addition, the present invention comprises a polynucleotide described below and a protein encoded by the polynucleotide.

- 5 (8) An isolated polynucleotide selected from the group consisting of
- (a) a polynucleotide comprising a coding region of the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;
- 10 (b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351;
- 15 (c) a polynucleotide comprising a nucleotide sequence encoding a protein comprising an amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351, in which one or more amino acids are substituted, deleted, inserted, and/or added, wherein said protein is functionally equivalent to the protein
- 20 comprising said amino acid sequence selected from the amino acid sequences set forth in the SEQ ID NOs in Tables 350 and 351;
- (d) a polynucleotide that hybridizes with a polynucleotide comprising a nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351, and that comprises a nucleotide sequence encoding a protein functionally
- 25 equivalent to the protein encoded by the nucleotide sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351;
- 30 (e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a protein encoded by the polynucleotide of (a) to (d);
- 35 (f) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351.
- 40 (9). A substantially pure protein encoded by the polynucleotide of (8).
- (10) An antibody against the protein or peptide of any one of (6), (7), and (9).
- 45 (11) A vector comprising the polynucleotide of (5) or (8).
- (12) A transformant carrying the polynucleotide of (5) or (8), or the vector of (11).
- 50 (13) A transformant expressively carrying the polynucleotide of (5) or (8), or the vector of (11).
- (14) A method for producing the protein or peptide of any one of (6), (7), and (9), comprising culturing the transformant of (13) and recovering the expression product.
- 55 (15) An oligonucleotide comprising the nucleotide sequence set forth in any one of the SEQ ID NOs in Tables 350 and 351 or the nucleotide sequence complementary to the

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complementary strand thereof, wherein said oligonucleotide comprises 15 nucleotides or more.

- 5 (16) Use of the oligonucleotide of (15) as a primer for synthesizing a polynucleotide.
- (17) Use of the oligonucleotide of (15) as a probe for detecting a gene.
- 10 (18) An antisense polynucleotide against the polynucleotide of (8), or the portion thereof.
- (19) A method for synthesizing a polynucleotide, the method comprising:
- 15 a) synthesizing a complementary strand using a cDNA library as a template, and using the primer set of (2) or (3), or the primer of (16); and
- b) recovering the synthesized product.
- 20 (20) The method of (19), wherein the cDNA library is obtainable by oligo-capping method.
- 25 (21) The method of (19), wherein the complementary strand is obtainable by PCR.
- (22) A method for detecting the polynucleotide of (8), the method comprising:
- 30 a) incubating a target polynucleotide with the oligonucleotide of (15) under the conditions where hybridization occurs, and
- b) detecting the hybridization of the target polynucleotide with the oligonucleotide of (15).
- 35 (23) A database of polynucleotides and/or proteins, the database comprising information on at least one sequence selected from the nucleotide sequences set forth in the SEQ ID NOs in Tables 350 and 351 and/or the amino acid sequences set forth in the SEQ ID NOs in Tables 40 350 and 351, or a medium on which the database is stored.
- 45 Any patents, patent applications, and publications cited herein are incorporated by reference.

BRIEF DESCRIPTION OF THE DRAWINGS

- 50 Figure 1 shows the restriction maps of vectors pME18SFL3 and pUC19FL3.
- Figure 2 shows the reproducibility of gene expression analysis. The respective intensities of gene expression observed in independent set of experiments are plotted in the vertical axis as well as in the horizontal axis.
- 55 Figure 3 shows the detection limit in gene expression analysis. The intensity of expression is shown in the vertical axis and the concentration ($\mu\text{g/ml}$) of probe used is shown in the horizontal axis.

DETAILED DESCRIPTION OF THE INVENTION

5 Herein, "polynucleotide" is defined as a molecule in which multiple nucleotides are polymerized. There are no limitations in the number of the polymerized nucleotides. In case that the polymer contains relatively low number of nucleotides, it is also described as an "oligonucleotide". The polynucleotide or the oligonucleotide of the present invention can be a
10 natural or chemically synthesized product. Alternatively, it can be synthesized using a template DNA by an enzymatic reaction such as PCR.

 All the cDNA provided by the invention are full-length cDNA. Herein, a "full-length cDNA" is defined as a cDNA which contains both ATG codon (the translation start site) and the stop codon.
15 Accordingly, the untranslated regions, which are originally found in the upstream or downstream of the protein coding region in natural mRNA, may or may not be contained.

 An "isolated polynucleotide" is a polynucleotide the structure of which is not identical to that of any naturally occurring nucleic acid or to that of any fragment of a naturally occurring
20 genomic nucleic acid spanning more than three separate genes. The term therefore covers, for example,

25 (a) a DNA which has the sequence of part of a naturally occurring genomic DNA molecule but is not flanked by both of the coding sequences that flank that part of the molecule in the genome of the organism in which it naturally occurs;

30 (b) a nucleic acid incorporated into a vector or into the genomic DNA of a prokaryote or eukaryote in a manner such that the resulting molecule is not identical to any naturally occurring vector or genomic DNA;

35 (c) a separate molecule such as a cDNA, a genomic fragment, a fragment produced by polymerase chain reaction (PCR), or a restriction fragment; and

40 (d) a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein. Specifically excluded from this definition are nucleic acids present in mixtures of different (i) DNA molecules, (ii) transfected cells, or (iii) cell clones: e.g., as these occur in a DNA library such as a cDNA or genomic DNA library.

45 The term "substantially pure" as used herein in reference to a given polypeptide means that the protein or polypeptide is substantially free from other biological macromolecules. The substantially pure protein or polypeptide is at least 75% (e.g., at least 80, 85, 95, or 99%) pure by dry weight. Purity can be measured by any appropriate standard method, for example, by
50 column chromatography, polyacrylamide gel electrophoresis, or HPLC analysis.

 All the clones (5602 clones) of the present invention are novel and encode the full-length proteins. All the clones were prepared by oligo capping method, which can achieve cDNA cloning with high fullness ratio. The cDNA clones were selected by using ATGprl score as an index of the
55 fullness ratio at the 5'-end, based on the sequence features of the 5'-end sequences. Selection was further carried out by searching GenBank database for EST sequences homologous to 5'-

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end sequence of each clone by BLAST [S.F. Altschul, W. Gish, W. Miller, E.W. Myers & D.L. Lipman J. Mol. Biol., 215:403-410 (1990); W. Gish, & D.J. States, Nature Genet., 3:266-272 (1993)] and by considering the number of matching (identical) EST sequences or the number of continuous amino acids in the 5'-end sequence initiated from the initiation codon.

Moreover, the clones were turn out to be not identical to any of the known human mRNA (namely novel) by homology search using the 5'-end sequence.

The primers of the present invention, which are used for synthesizing full-length cDNA, are selected from the group comprising SEQ ID NO: 1-5547 (5'-primer), or SEQ ID NO: 5548-10463 (3'-primer). Further, the primers of the present invention, which are used for synthesizing full-length cDNA, are selected from SEQ ID NO: 16111-16164 (5'-primer), or SEQ ID NO: 16165-16218 (3'-primer). Some of the nucleotides include a known EST as its part. However, the primers of the present invention are novel in terms that the primers enable to synthesize full-length cDNA. Because the known ESTs lack important information on what part of cDNA the ESTs correspond to, it is impossible to design primers on the basis of the ESTs.

All the full-length cDNA of the present invention can be synthesized using a primer set comprising the nucleotide sequences selected from both the 5'-and 3'-end sequences, or a set comprising a primer based on the 5'-end sequence and an oligo-dT primer, by a method such as PCR (Current protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 6.1-6.4).

Specifically, PCR can be performed using an oligonucleotide that has 15 nucleotides longer, and specifically hybridizes with the complementary strand of the polynucleotide that contains the nucleotide sequence selected from the 5'-end sequences shown in Table 1 and 2 (SEQ ID NO: 1-5547, or SEQ ID NO: 16111-16164), and an oligo-dT primer as a 5'-, and 3'-primer, respectively. The length of the primers is usually 15-100 bp, and favorably between 15-35 bp. In case of LA PCR, which is described below, the primer length of 25-35 bp may provide a good result.

A method to design a primer that enables a specific amplification based on the given nucleotide sequence is known to those skilled in the art (Current Protocols in Molecular Biology, Ausubel et al. edit, (1987) John Wiley & Sons, Section 6.1-6.4). In designing a primer based on the 5'-end sequence, the primer is designed so as that, in principle, the amplification products will include the translation start site. Accordingly, in case that a given 5'-end nucleotide sequence is the 5'- untranslated region (5'UTR), any part of the sequence can be used as a 5'-primer as far as the specificity toward the target cDNA is insured. The translation start site can be predicted using a known method such as the ATGpr as described below.

When synthesizing a polynucleotide, the target nucleotide sequence to be amplified can extend to several thousand bp in some cDNA. However, it is possible to amplify such a long nucleotides by using such as LA PCR (Long and Accurate PCR). It is advantageous to use LA PCR when synthesizing long DNA. In LA PCR, in which a special DNA polymerase having 3' → 5' exonuclease activity is used, misincorporated nucleotides can be removed. Accordingly, accurate synthesis of the complementary strand can be achieved even with a long nucleotide sequence. By using LA PCR, it is reported that amplification of a nucleotide with 20 kb longer can be achieved under desirable condition (Takeshi Hayashi (1996) Jikken-Igaku Bessatsu, "Advanced Technologies in PCR" Youdo-sha).

A template DNA for synthesizing the cDNA of the present invention can be obtained by using cDNA libraries that are prepared by various methods. The full-length cDNA clones obtained here

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are those with high fullness ratio, which were obtained using a combination of (1) a method to prepare a full-length-enriched cDNA library using the oligo-capping method, and (2) an estimation system for fullness using the 5'-end sequence (selection based on the estimation by the ATGpr after removing clones that are not-full-length compared to the ESTs). However, it is possible to easily obtain a full-length cDNA by using the primers that are provided by the present invention, not by the above described specialized method.

The problem with the cDNA libraries prepared by the known methods or commercially available is that mRNA contained in the libraries has very low fullness ratio. Thus, it is difficult to screen full-length cDNA clone directly from the library using ordinary cloning methods. The present invention has revealed a primer that is capable of synthesizing a full-length cDNA. If provided with primers, it is possible to synthesize a target full-length cDNA by using enzymatic reactions such as PCR. In particular, a full-length-enriched cDNA library, synthesized by methods such as oligo-capping, is desirable to synthesize a full-length cDNA with more reliability.

The 5'-end sequence of the full-length cDNA clones of the invention can be used to isolate the regulatory element of transcription including the promoter on the genome. By the spring of the year 2000, a rough draft of the human genome (analysis of human genomic sequence with lower accuracy), which covers 90% of the genome, is planned to be accomplished, and by the year 2003, analysis of the entire human genomic sequence is going to be finished. However, it is hard to analyze with software the transcription start sites on the human genome, in which long introns exist. By contrast, it is easy to specify the transcription start site on the genomic sequence using the 5'-end sequence of the full-length cDNA clone, thus it is easy to obtain the genomic region involved in transcription regulation, which includes the promoter that is contained in the upstream of the transcription start site.

The full-length cDNAs cloned in the present invention are classified into 13 groups, based on the data such as ATGpr1 score, by which the fullness ratio can be evaluated. Specifically, the 13 groups consist of; the below-mentioned groups (1)-(3), containing 3690 clones (Table 9), and the group (12), containing 3 clones, wherein ATGpr1 (score defined in the ATGpr program) is higher than 0.3; and the below-mentioned groups (4)-(11), containing 1857 clones (Table 10), and the group (13), containing 52 clones, wherein, although ATGpr1 is 0.3 or less, the clones are judged to be full-length from various viewpoints. Names of the clones belonging to the groups (1)-(13) are as indicated in Examples or below.

(1) 1516 clones

Among the 3690 clones that have the maximal ATGpr1 score higher than 0.3, 1516 clones are novel full-length clones, in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(2) 377 clones

Among the 3690, 377 clones are novel full-length clones, in which the number of human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

(3) 1797 clones

Among the 3690, 1797 clones are novel full-length clones, in which the number of human EST having identical sequence at the 5'-end is not more than 20 (except the clones described above).

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(4) 453 clones

Among the 1857 clones in which the maximal ATGpr1 score is 0.3 or less, the following 453 clones are estimated to be novel full-length clones since the clones have the maximal score 0.3 or more in the ATGpr2, and at least either of the sequences of their 5'- and 3'-ends, or both are not identical to those of any human EST. The ATGpr2 score is determined by using the ATGpr program with neglecting the information of the frequency of the six nucleotides contained within the sequence between the ATG codon and the stop codon (the maximal length is 300 nucleotides from the ATG codon) (Salamo A.A., Nishikawa T., and Swindells M.B. (1998) Bioinformatics, 14: 384-390; <http://www.hri.co.jp/atgpr/>). The ATGpr program for calculating the ATGpr2 score is described as the ATGpr2 program in the followings.

(5) 24 clones

Among the 1857 clones, 24 clones are estimated to be full-length since their maximal ATGpr2 scores are higher than 0.3, and also novel, though they have low scores in ATGpr1 program, in which the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

20

(6) 65 clones

Among the 1857 clones, 65 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

(7) 32 clones

Among the 1857 clones, 32 clones are estimated to be full-length since, though they have low scores in both programs, ATGpr1 and ATGpr2, the scores are the maximum in comparison to those of the other clones in the same cluster (at least two clones). The clones are also novel, if the number of the human EST having identical sequence at both 5'- and 3'-ends is 1 to 5.

35

(8) 36 clones

Among the 1857 clones, 36 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST.

40

(9) 81 clones

Among the 1857 clones, 81 clones are full-length, which were selected by assembling the sequences of the other clones or human EST, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if the number of the human EST having identical sequence at the 5'-end is not more than 20 (other than the clones in which at least either of the sequences of the 5'- and 3'-ends, or both are not identical to those of any human EST).

50

(10) 938 clones

Among the 1857 clones, 938 clones are estimated to be full-length according to the fullness ratio shown in Table 4, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 5'-end is not identical to those of

55

any human EST.

(11) 228 clones

5 Among the 1857 clones, 228 clones are estimated to be full-length according to the fullness ratio shown in Table 7, although they have low scores in both programs, ATGpr1 and ATGpr2. The clones are also novel, if at least the sequence of the 3'-end is not identical to those of any human EST.

10

(12) 3 clones

Three clones, HEMBA1006812, HEMBB1001871, and NT2RP3001282, whose maximal ATGpr1 values are higher than 0.3, are full-length and novel clones whose 5'-end sequences
15 presumably contain a coding region which is initiated with ATG codon and which encodes 100 amino acids or more.

(13) 52 clones

20 The following 52 clones, which have maximal ATGpr1 values of 0.3 or less, are full-length with the fullness ratios shown in Table 4 although the fullness ratios are low:

HEMBA1000497, HEMBA1001750, HEMBA1003854, HEMBA1004193, HEMBA1004860,
HEMBA1005572, HEMBA1006038, HEMBA1006092, HEMBA1006406, HEMBA1006650,
25 HEMBB1000672, HEMBB1001197, MAMMA1001252, MAMMA1002094, NT2RM4000634,
NT2RM4000657, NT2RM4000783, NT2RM4000857, NT2RM4001178, NT2RM4002420,
NT2RP2000198, NT2RP2000551, NT2RP2000660, NT2RP2001214, NT2RP2001460,
NT2RP2001756, NT2RP2002056, NT2RP2002677, NT2RP2002755, NT2RP2002843,
30 NT2RP2003101, NT2RP2003799, NT2RP2004095, NT2RP2004732, NT2RP2004920,
NT2RP2005454, NT2RP2005776, NT2RP2005806, NT2RP2005882, NT2RP3001723,
NT2RP3002099, NT2RP3003155, NT2RP3004028, OVARC1000008, OVARC1000724,
OVARC1000751, OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549,
35 PLACE1007218, NT2RP4002298.

Moreover, the clones are novel clones whose 5'-end sequences presumably contain a coding region which is initiated with ATG codon and which encodes 50 amino acids or more. Among them, the following 20 clones is predicted to contain a coding region with 100 amino acids or
40 more and should encode proteins:

HEMBA1000497, HEMBA1003854, HEMBA1004193, NT2RM4000657, NT2RM4001178,
NT2RP2001756, NT2RP2002677, NT2RP2002755, NT2RP2002843, NT2RP2004095,
NT2RP2004920, NT2RP2005806, NT2RP3002099, NT2RP3003155, OVARC1000724,
45 OVARC1001029, PLACE1000814, PLACE1003030, PLACE1005549, PLACE1007218.

The protein encoded by the polynucleotide of the invention can be prepared as a recombinant
50 protein or as a natural protein. For example, the recombinant protein can be prepared by inserting the polynucleotide encoding the protein of the invention into a vector, introducing the vector into an appropriate host cell and purifying the protein expressed within the transformed host cell, as described below. In contrast, the natural protein can be prepared, for
55 example, by utilizing an affinity column to which an antibody against the protein of the invention (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 16.1-16.19) is attached. The antibody used for affinity purification may be either a

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polyclonal antibody, or a monoclonal antibody. Alternatively, in vitro translation (See, for example, "On the fidelity of mRNA translation in the nuclease-treated rabbit reticulocyte lysate system." Dasso M.C., and Jackson R.J. (1989) *Nucleic Acids Res.* 17: 3129-3144) may be used for preparing the protein of the invention.

Proteins functionally equivalent to the proteins of the present invention can be prepared based on the activities, which were clarified in the above-mentioned manner, of the proteins of the present invention. Using the biological activity possessed by the protein of the invention as an index, it is possible to verify whether or not a particular protein is functionally equivalent to the protein of the invention by examining whether or not the protein has said activity.

Proteins functionally equivalent to the proteins of the present invention can be prepared by those skilled in the art, for example, by using a method for introducing mutations into an amino acid sequence of a protein (for example, site-directed mutagenesis (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 8.1-8.5). Besides, such proteins can be generated by spontaneous mutations. The present invention comprises the proteins having one or more amino acids substitutions, deletions, insertions and/or additions in the amino acid sequences of the proteins of the present invention (Tables 350 and 351), as far as the proteins have the equivalent functions to those of the proteins identified in the present Examples described later.

There are no limitations in the number and sites of amino acid mutations, as far as the proteins maintain the functions thereof. The number of mutations is typically 30% or less, or 20% or less, or 10% or less, preferably within 5% or less, or 3% or less of the total amino acids, more preferably within 2% or less or 1 % or less of the total amino acids. From the viewpoint of maintaining the protein function, it is preferable that a substituted amino has a similar property to that of the original amino acid. For example, Ala, Val, Leu, Ile, Pro, Met, Phe and Trp are assumed to have similar properties to one another because they are all classified into a group of non-polar amino acids. Similarly, substitution can be performed among non-charged amino acid such as Gly, Ser, Thr, Cys, Tyr, Asn, and Gln, acidic amino acids such as Asp and Glu, and basic amino acids such as Lys, Arg, and His.

In addition, proteins functionally equivalent to the proteins of the present invention can be isolated by using techniques of hybridization or gene amplification known to those skilled in the art. Specifically, using the hybridization technique (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)), those skilled in the art can usually isolate a DNA highly homologous to the DNA encoding the protein identified in the present Example based on the identified nucleotide sequence (Tables 350 and 351) or a portion thereof and obtain the functionally equivalent protein from the isolated DNA. The present invention include proteins encoded by the DNAs hybridizing with the DNAs encoding the proteins identified in the present Example, as far as the proteins are functionally equivalent to the proteins identified in the present Example. Organisms from which the functionally equivalent proteins are isolated are illustrated by vertebrates such as human, mouse, rat, rabbit, pig and bovine, but are not limited to these animals.

Washing conditions of hybridization for the isolation of DNAs encoding the functionally equivalent proteins are usually "1 × SSC, 0.1% SDS, 37°C"; more stringent conditions are "0.5 × SSC, 0.1% SDS, 42°C"; and still more stringent conditions are "0.1 × SSC, 0.1% SDS, 65°C". Alternatively, the following conditions can be given as hybridization conditions of the present invention. Namely, conditions in which the hybridization is done at "6 × SSC, 40%

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Formamide, 25°C", and the washing at "1 × SSC, 55°C" can be given. More preferable conditions are those in which the hybridization is done at "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". Even more preferable are those in which the hybridization is done at "6 × SSC, 50% Formamide, 37°C", and the washing at "0.1 × SSC, 62°C". The more stringent the conditions of hybridization are, the more frequently the DNAs highly homologous to the probe sequence are isolated. Therefore, it is preferable to conduct hybridization under stringent conditions. Examples of stringent conditions in the present invention are, washing conditions of "0.5 × SSC, 0.1% SDS, 42°C", or alternatively, hybridization conditions of "6 × SSC, 40% Formamide, 37°C", and the washing at "0.2 × SSC, 55°C". However, the above-mentioned combinations of SSC, SDS and temperature conditions are indicated just as examples. Those skilled in the art can select the hybridization conditions with similar stringency to those mentioned above by properly combining the above-mentioned or other factors (for example, probe concentration, probe length and duration of hybridization reaction) that determines the stringency of hybridization.

The amino acid sequences of proteins isolated by using the hybridization techniques usually exhibit high homology to those of the proteins of the present invention, which are shown in Tables 350 and 351. The present invention encompasses a polynucleotide comprising a nucleotide sequence that has a high identity to the nucleotide sequence of claim 8 (a). Furthermore, the present invention encompasses a peptide, or protein comprising an amino acid sequence that has a high identity to the amino acid sequence encoded by the polynucleotide of claim 8 (b). The term "high identity" indicates sequence identity of at least 40% or more; preferably 60% or more; and more preferably 70% or more. Alternatively, more preferable is identity of 90% or more, or 93% or more, or 95% or more, furthermore, 97% or more, or 99% or more. The identity can be determined by using the BLAST search algorithm.

With the gene amplification technique (PCR) (Current Protocols in Molecular Biology, edit, Ausubel et al., (1987) John Wiley & Sons, Section 6.3-6.4)) using primers designed based on the nucleotide sequence (Tables 350 and 351) or a portion thereof identified in the present Example, it is possible to isolate a DNA fragment highly homologous to the polynucleotide sequence or a portion thereof and to obtain functionally equivalent protein to a particular protein identified in the present Example based on the isolated DNA fragment.

The "percent identity" of two amino acid sequences or of two nucleic acids is determined using the algorithm of Karlin and Altschul (Proc. Natl. Acad. Sci. USA 87:2264-2268, 1990), modified as in Karlin and Altschul (Proc. Natl. Acad. Sci. USA 90:5873-5877, 1993). Such an algorithm is incorporated into the BLASTN and BLASTX programs of Altschul et al. (J. Mol. Biol. 215:403-410, 1990). BLAST nucleotide searches are performed with the BLASTN program, score = 100, wordlength = 12. BLAST protein searches are performed with the BLASTX program, score = 50, wordlength = 3. When gaps exist between two sequences, Gapped BLAST is utilized as described in Altschul et al. (Nucleic Acids Res. 25:3389-3402, 1997). When utilizing BLAST and Gapped BLAST programs, the default parameters of the respective programs (e.g., BLASTX and BLASTN) are used. See <http://www.ncbi.nlm.nih.gov>.

The present invention also includes a partial peptide of the proteins of the invention. The partial peptide comprises a protein generated as a result that a signal peptide has been removed from a secretory protein. If the protein of the present invention has an activity as a receptor or a ligand, the partial peptide may function as a competitive inhibitor of the protein

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and may bind to the receptor (or ligand). In addition, the present invention comprises an antigen peptide for raising antibodies. For the peptides to be specific for the protein of the invention, the peptides comprise at least 7 amino acids, preferably 8 amino acids or more, more preferably 9 amino acids or more, and even more preferably 10 amino acids or more. The peptide can be used for preparing antibodies against the protein of the invention, or competitive inhibitors of them, and also screening for a receptor that binds to the protein of the invention. The partial peptides of the invention can be produced, for example, by genetic engineering methods, known methods for synthesizing peptides, or digesting the protein of the invention with an appropriate peptidase.

The present invention also relates to a vector into which the DNA of the invention is inserted. The vector of the invention is not limited as long as it contains the inserted DNA stably. For example, if *E. coli* is used as a host, vectors such as pBluescript vector (Stratagene) are preferable as a cloning vector. To produce the protein of the invention, expression vectors are especially useful. Any expression vector can be used as far as it is capable of expressing the protein *in vitro*, in *E. coli*, in cultured cells, or *in vivo*. For example, pBEST vector (Promega) is preferable for *in vitro* expression, pET vector (Invitrogen) for *E. coli*, pME18S-FL3 vector (GenBank Accession No. AB009864) for cultured cells, and pME18S vector (Mol. Cell. Biol. (1988) 8: 466-472) for *in vivo* expression. To insert the DNA of the invention, ligation utilizing restriction sites can be performed according to the standard method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

The present invention also relates to a transformant carrying the vector of the invention. Any cell can be used as a host into which the vector of the invention is inserted, and various kinds of host cells can be used depending on the purposes. For strong expression of the protein in eukaryotic cells, COS cells or CHO cells can be used, for example.

Introduction of the vector into host cells can be performed, for example, by calcium phosphate precipitation method, electroporation method (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 9.1-9.9), lipofectamine method (GIBCO-BRL), or microinjection method, etc.

The primer of the present invention can be used for synthesizing full-length cDNA, and also for the detection and/or diagnosis of the abnormality of the protein of the invention encoded by the full-length cDNA. For example, by utilizing polymerase chain reaction (genomic DNA-PCR, or RT-PCR) using the primer of the invention, DNA encoding the protein of the invention can be amplified. It is also possible to obtain the regulatory region of expression in the 5'-upstream by using PCR or hybridization since the transcription start site within the genomic sequence can be easily specified based on the 5'-end sequence of the full-length cDNA. The obtained genomic region can be used for detection and/or diagnosis of the abnormality of the sequence by RFLP analysis, SSCP, or direct sequencing.

Furthermore, the "polynucleotide having a length of at least 15 nucleotides, comprising a nucleotide sequence that is complementary to a polynucleotide comprising the nucleotide sequence set forth in any one of SEQ ID NOs in Tables 350 and 351, or its complementary strand" includes an antisense polynucleotide for suppressing the expression of the protein of the invention. To exert the antisense effect, the antisense polynucleotide has a length of at least 15 bp or more, for example, 50 bp or more, preferably 100 bp or more, and more preferably 500 bp or more, and has a length of usually 3000 bp or less and preferably 2000 bp or less. The antisense DNA can be used in the gene therapy of the diseases that are caused by the

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abnormality of the protein of the invention (abnormal function or abnormal expression). Said antisense DNA can be prepared, for example, by the phosphorothioate method ("Physicochemical properties of phosphorothioate oligodeoxynucleotides." Stein (1988) Nucleic Acids Res. 16: 3209-3221) based on the nucleotide sequence of the DNA encoding the protein (for example, the DNA set forth in any one of SEQ ID NOs in Tables 350 and 351).

The polynucleotide or antisense DNA of the present invention can be used in gene therapy, for example, by administering it into a patient by the in vivo or ex vivo method with virus vectors such as retrovirus vectors, adenovirus vectors, and adeno-associated virus vectors, or non-virus vectors such as liposome.

The present invention also relates to antibodies that bind to the protein of the invention. There are no limitations in the form of the antibodies of the invention. They include polyclonal antibodies, monoclonal antibodies, or their portions that can bind to the protein of the invention. They also include antibodies of all classes. Furthermore, special antibodies such as humanized antibodies are also included.

The polyclonal antibody of the invention can be obtained according to the standard method by synthesizing an oligopeptide corresponding to the amino acid sequence and immunizing rabbits with the peptides (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.12-11.13). The monoclonal antibody of the invention can be obtained according to the standard method by purifying the protein expressed in *E. coli*, immunizing mice with the protein, and producing a hybridoma cell by fusing the spleen cells and myeloma cells (Current Protocols in Molecular Biology (1987) Ausubel et al. edit, John Wiley & Sons, Section 11.4-11.11).

The antibody binding to the protein of the present invention can be used for purification of the protein of the invention, and also for detection and/or diagnosis of the abnormalities of the expression and structure of the protein. Specifically, proteins can be extracted, for example, from tissues, blood, or cells, and the protein of the invention is detected by Western blotting, immunoprecipitation, or ELISA, etc. for the above purpose.

Furthermore, the antibody binding to the protein of the present invention can be utilized for treating the diseases that associates with the protein of the invention. If the antibodies are used for treating patients, human antibodies or humanized antibodies are preferable in terms of their low antigenicity. The human antibodies can be prepared by immunizing a mouse whose immune system is replaced with that of human ("Functional transplant of megabase human immunoglobulin loci recapitulates human antibody response in mice" Mendez M.J. et al. (1997) Nat. Genet. 15: 146-156). The humanized antibodies can be prepared by recombination of the hypervariable region of a monoclonal antibody (Methods in Enzymology (1991) 203: 99-121).

The cDNA of the present invention encodes the amino acid sequence of a protein which is predicted to have the function(s) described below based on the homology search of the GenBank and SwissProt. Specifically, for instance, as shown in EXAMPLES, searching a known gene or protein that is homologous to the partial sequence of the full-length cDNA of the invention (5602 clone) and referring the function of the gene and of the protein encoded by the gene make it possible to predict the function of the protein encoded by the cDNA of the invention. In this way, each of 1437 clones out of the 5602 full-length cDNA clones of the invention was predicted to encode a protein that was classified into one or more of the following categories.

Secretory or membrane protein (261 clones)

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- Glycoprotein-associated protein (113 clones)
- 5 Signal transduction-associated protein (148 clones)
- Transcription-associated protein (233 clones)
- 10 Disease-associated protein (437 clones)
- Enzyme or metabolism-associated protein (301 clones)
- 15 Cell division- or cell proliferation-associated protein (74 clones)
- Cytoskeleton-associated protein (92 clones)
- 20 RNA synthesis-associated protein (280 clones)
- Nuclear protein (352 clones)
- 25 Protein synthesis- or transport-associated protein (112 clones)
- Cellular defense-associated protein (23 clones)
- 30 Development- or growth-associated protein (23 clones)

35 It is also possible to predict the protein function by looking into the amino acid sequence for the motifs such as the signal sequence, transmembrane region, nuclear translocation signal, glycosylation signal, phosphorylation site, Zinc finger motif, and SH3 domain. The programs, PSORT (Nakai K., and Kanehisa M. (1992) *Genomics* 14: 897-911), SOSUI (Hirokawa T. et al. (1998) *Bioinformatics* 14: 378-379) (Mitsui Information Developing Inc.), and MEMSAT (Jones D.T., Taylor W.R., and Thornton J.M. (1994) *Biochemistry* 33: 3038-3049) can be used to predict
40 the existence of the signal sequence or transmembrane region. Alternatively, a partial amino acid sequence of the protein is fused with another protein such as GFP, the fusion protein is transfected into cultured cells, and the localization is analyzed to predict the function of the
45 original protein.

Based on the determined nucleotide sequences of the full-length cDNAs obtained in the present invention, it is possible to predict more detailed functions of the proteins encoded by the cDNA clones, for example, by searching the databases such as GenBank, Swiss-Prot and
50 UniGene for homologies of the cDNAs; or by searching the amino acid sequences deduced from the full-length cDNAs for signal sequences by using software programs such as PSORT, for transmembrane regions by using software programs such as SOSUI or for motifs by using software programs such as Pfam (<http://www.sanger.ac.uk/Software/Pfam/index.shtml>) and
55 PROSITE (<http://www.expasy.ch/prosite/>). As a matter of course, the functions are often predictable by using partial sequence information (preferably 300 nucleotides or more) instead of the full-length nucleotide sequences. However, the result of the prediction by using partial

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nucleotide sequence does not always agree with the result obtained by using full-length nucleotide sequence, and thus, it is needless to say that the prediction of function is preferably performed based on the full-length nucleotide sequences.

- 5 GenBank, Swiss-Prot and UniGene databases were searched for homologies of the full-length nucleotide sequences of the 4997 clones (see Example 18). The amino acid sequences deduced from the full-length nucleotide sequences were searched for functional domains by PSORT, SOSUI and Pfam. Prediction of functions of proteins encoded by the clones and the
- 10 categorization thereof were performed based on these results obtained.

The following 798 clones were categorized into secretory and/or membrane proteins.

- HEMBA1000356, HEMBA1000518, HEMBA1000531, HEMBA1000637, HEMBA1000719,
HEMBA1000817, HEMBA1000822, HEMBA1000852, HEMBA1000870, HEMBA1000991,
15 HEMBA1001052, HEMBA1001071, HEMBA1001085, HEMBA1001286, HEMBA1001351,
HEMBA1001407, HEMBA1001446, HEMBA1001515, HEMBA1001557, HEMBA1001569,
HEMBA1001661, HEMBA1001734, HEMBA1001746, HEMBA1001866, HEMBA1002125,
HEMBA1002150, HEMBA1002166, HEMBA1002417, HEMBA1002462, HEMBA1002475,
20 HEMBA1002477, HEMBA1002486, HEMBA1002609, HEMBA1002659, HEMBA1002661,
HEMBA1002780, HEMBA1002818, HEMBA1002876, HEMBA1002921, HEMBA1003071,
HEMBA1003077, HEMBA1003079, HEMBA1003086, HEMBA1003096, HEMBA1003281,
HEMBA1003286, HEMBA1003538, HEMBA1003711, HEMBA1003742, HEMBA1003803,
25 HEMBA1004055, HEMBA1004143, HEMBA1004146, HEMBA1004207, HEMBA1004341,
HEMBA1004461, HEMBA1004577, HEMBA1004637, HEMBA1004752, HEMBA1004756,
HEMBA1004850, HEMBA1004889, HEMBA1004923, HEMBA1004930, HEMBA1005029,
HEMBA1005035, HEMBA1005050, HEMBA1005552, HEMBA1005576, HEMBA1005581,
30 HEMBA1005588, HEMBA1005616, HEMBA1005699, HEMBA1005991, HEMBA1006036,
HEMBA1006038, HEMBA1006067, HEMBA1006173, HEMBA1006198, HEMBA1006293,
HEMBA1006310, HEMBA1006492, HEMBA1006502, HEMBA1006583, HEMBA1006659,
HEMBA1006758, HEMBA1006789, HEMBA1006921, HEMBA1006926,
35 HEMBA1006976, HEMBA1007203, HEMBA1007301, HEMBB1000037, HEMBB1000050,
HEMBB1000054, HEMBB1000175, HEMBB1000317, HEMBB1000556, HEMBB1000593,
HEMBB1000631, HEMBB1000763, HEMBB1000827, HEMBB1000915, HEMBB1000975,
HEMBB1001112, HEMBB1001151, HEMBB1001177, HEMBB1001302, HEMBB1001348,
40 HEMBB1001564, HEMBB1001630, HEMBB1001871, HEMBB1001872, HEMBB1001925,
HEMBB1001962, HEMBB1002042, HEMBB1002044, HEMBB1002142, HEMBB1002190,
HEMBB1002193, HEMBB1002247, HEMBB1002383, HEMBB1002387, HEMBB1002550,
HEMBB1002600, HEMBB1002692, MAMMA1000045, MAMMA1000129, MAMMA1000133,
45 MAMMA1000277, MAMMA1000278, MAMMA1000410, MAMMA1000416, MAMMA1000472,
MAMMA1000672, MAMMA1000684, MAMMA1000714, MAMMA1000734, MAMMA1000778,
MAMMA1000798, MAMMA1000842, MAMMA1000859, MAMMA1000897, MAMMA1000956,
MAMMA1001008, MAMMA1001030, MAMMA1001041, MAMMA1001073, MAMMA1001080,
50 MAMMA1001139, MAMMA1001154, MAMMA1001322, MAMMA1001388, MAMMA1001411,
MAMMA1001487, MAMMA1001751, MAMMA1001754, MAMMA1001771, MAMMA1002009,
MAMMA1002427, MAMMA1002428, MAMMA1002461, MAMMA1002524, MAMMA1002573,
MAMMA1002598, MAMMA1002655, MAMMA1002684, MAMMA1002769, MAMMA1002844,
55 MAMMA1002881, MAMMA1002890, MAMMA1002938, MAMMA1002947, MAMMA1003035,
MAMMA1003089, MAMMA1003146, MAMMA1003150, NT2RM1000035, NT2RM1000037,
NT2RM1000062, NT2RM1000080, NT2RM1000092, NT2RM1000131, NT2RM1000199,

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	NT2RM1000257,	NT2RM1000260,	NT2RM1000355,	NT2RM1000430,	NT2RM1000563,
	NT2RM1000648,	NT2RM1000742,	NT2RM1000770,	NT2RM1000800,	NT2RM1000811,
	NT2RM1000833,	NT2RM1000857,	NT2RM1000867,	NT2RM1000882,	NT2RM1000905,
5	NT2RM1001008,				
	NT2RM1001115,	NT2RM1001139,	NT2RM2000259,	NT2RM2000260,	NT2RM2000287,
	NT2RM2000395,	NT2RM2000402,	NT2RM2000407,	NT2RM2000422,	NT2RM2000490,
	NT2RM2000522,	NT2RM2000566,	NT2RM2000581,	NT2RM2000609,	NT2RM2000821,
10	NT2RM2001370,	NT2RM2001393,	NT2RM2001499,	NT2RM2001547,	NT2RM2001613,
	NT2RM2001648,	NT2RM2001659,	NT2RM2001671,	NT2RM2001688,	NT2RM2001698,
	NT2RM2001718,	NT2RM2001753,	NT2RM2001760,	NT2RM2001785,	NT2RM2001930,
	NT2RM2001950,	NT2RM2001997,	NT2RM2001998,	NT2RM2002049,	NT2RM2002145,
15	NT2RM4000233,	NT2RM4000433,	NT2RM4000457,	NT2RM4000486,	NT2RM4000496,
	NT2RM4000520,	NT2RM4000634,	NT2RM4000674,	NT2RM4000700,	NT2RM4000764,
	NT2RM4000778,	NT2RM4000795,	NT2RM4000820,	NT2RM4000857,	NT2RM4001032,
	NT2RM4001054,	NT2RM4001116,	NT2RM4001455,	NT2RM4001666,	NT2RM4001810,
20	NT2RM4001813,	NT2RM4001930,	NT2RM4001987,	NT2RM4002054,	NT2RM4002073,
	NT2RM4002145,	NT2RM4002146,	NT2RM4002189,	NT2RM4002194,	NT2RM4002251,
	NT2RM4002339,	NT2RM4002438,	NT2RM4002446,	NT2RM4002452,	NT2RM4002460,
	NT2RM4002493,	NT2RM4002558,	NT2RM4002565,	NT2RM4002571,	NT2RM4002594,
25	NT2RP1000130,	NT2RP1000191,	NT2RP1000326,	NT2RP1000358,	NT2RP1000413,
	NT2RP1000418,	NT2RP1000547,	NT2RP1000609,	NT2RP1000677,	NT2RP1000767,
	NT2RP1000782,	NT2RP1000856,	NT2RP1001113,	NT2RP1001247,	NT2RP1001286,
	NT2RP1001310,	NT2RP1001311,	NT2RP1001313,	NT2RP1001385,	NT2RP1001449,
30	NT2RP1001546,	NT2RP1001569,	NT2RP2000032,	NT2RP2000040,	NT2RP2000056,
	NT2RP2000070,	NT2RP2000091,	NT2RP2000114,	NT2RP2000120,	NT2RP2000173,
	NT2RP2000175,	NT2RP2000195,	NT2RP2000257,	NT2RP2000270,	NT2RP2000283,
	NT2RP2000288,	NT2RP2000289,	NT2RP2000459,	NT2RP2000516,	NT2RP2000660,
35	NT2RP2000842,	NT2RP2000892,	NT2RP2001081,	NT2RP2001268,	NT2RP2001295,
	NT2RP2001366,	NT2RP2001378,	NT2RP2001576,	NT2RP2001581,	NT2RP2001597,
	NT2RP2001613,	NT2RP2001947,	NT2RP2001991,	NT2RP2002025,	NT2RP2002066,
	NT2RP2002078,	NT2RP2002105,	NT2RP2002312,	NT2RP2002325,	
40	NT2RP2002385,	NT2RP2002479,	NT2RP2002537,	NT2RP2002643,	NT2RP2002701,
	NT2RP2002740,	NT2RP2002857,	NT2RP2003125,	NT2RP2003297,	NT2RP2003433,
	NT2RP2003446,	NT2RP2003466,	NT2RP2003506,	NT2RP2003513,	NT2RP2003629,
	NT2RP2003668,	NT2RP2003760,	NT2RP2003777,	NT2RP2003781,	NT2RP2004041,
45	NT2RP2004142,	NT2RP2004194,	NT2RP2004270,	NT2RP2004300,	NT2RP2004392,
	NT2RP2004655,	NT2RP2004681,	NT2RP2004775,	NT2RP2004799,	NT2RP2004936,
	NT2RP2004959,	NT2RP2005012,	NT2RP2005159,	NT2RP2005227,	NT2RP2005270,
	NT2RP2005344,	NT2RP2005465,	NT2RP2005509,	NT2RP2005752,	NT2RP2005781,
50	NT2RP2005784,	NT2RP2005812,	NT2RP2006069,	NT2RP2006100,	NT2RP2006141,
	NT2RP2006184,	NT2RP2006261,	NT2RP2006565,	NT2RP2006571,	NT2RP2006573,
	NT2RP3000092,	NT2RP3000109,	NT2RP3000134,	NT2RP3000207,	NT2RP3000333,
	NT2RP3000341,	NT2RP3000393,	NT2RP3000439,	NT2RP3000441,	NT2RP3000531,
55	NT2RP3000685,	NT2RP3000825,	NT2RP3000826,	NT2RP3000852,	NT2RP3000919,
	NT2RP3001084,	NT2RP3001096,	NT2RP3001126,	NT2RP3001140,	NT2RP3001176,
	NT2RP3001260,	NT2RP3001282,	NT2RP3001355,	NT2RP3001383,	NT2RP3001426,

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	NT2RP3001453,	NT2RP3001497,	NT2RP3001538,	NT2RP3001589,	NT2RP3001642,
	NT2RP3001708,	NT2RP3001716,	NT2RP3001727,	NT2RP3001739,	NT2RP3001799,
	NT2RP3001943,	NT2RP3001944,	NT2RP3002002,	NT2RP3002007,	NT2RP3002014,
5	NT2RP3002054,	NT2RP3002108,	NT2RP3002163,	NT2RP3002351,	NT2RP3002455,
	NT2RP3002549,	NT2RP3002602,	NT2RP3002628,	NT2RP3002650,	NT2RP3002687,
	NT2RP3002701,	NT2RP3002810,	NT2RP3002869,	NT2RP3002969,	NT2RP3002985,
	NT2RP3003008,	NT2RP3003059,	NT2RP3003071,	NT2RP3003101,	NT2RP3003145,
10	NT2RP3003197,	NT2RP3003203,	NT2RP3003242,	NT2RP3003302,	NT2RP3003353,
	NT2RP3003409,	NT2RP3003576,	NT2RP3003621,	NT2RP3003665,	NT2RP3003672,
	NT2RP3003701,	NT2RP3003716,	NT2RP3003799,	NT2RP3003828,	NT2RP3003914,
	NT2RP3003918,	NT2RP3003992,	NT2RP3004051,	NT2RP3004148,	NT2RP3004155,
15	NT2RP3004207,	NT2RP3004282,	NT2RP3004454,	NT2RP3004480,	NT2RP3004503,
	NT2RP4000008,	NT2RP4000051,	NT2RP4000151,	NT2RP4000212,	NT2RP4000243,
	NT2RP4000259,	NT2RP4000323,	NT2RP4000417,	NT2RP4000500,	NT2RP4000524,
	NT2RP4000556,	NT2RP4000560,	NT2RP4000588,	NT2RP4000713,	NT2RP4000724,
20	NT2RP4000817,	NT2RP4000833,	NT2RP4000878,	NT2RP4000907,	NT2RP4000925,
	NT2RP4000928,	NT2RP4000973,	NT2RP4000989,	NT2RP4001057,	NT2RP4001064,
	NT2RP4001079,	NT2RP4001117,	NT2RP4001138,	NT2RP4001149,	NT2RP4001150,
	NT2RP4001174,	NT2RP4001219,	NT2RP4001274,	NT2RP4001313,	NT2RP4001345,
25	NT2RP4001372,	NT2RP4001373,	NT2RP4001379,	NT2RP4001498,	NT2RP4001547,
	NT2RP4001571,	NT2RP4001574,	NT2RP4001644,	NT2RP4001656,	NT2RP4001677,
	NT2RP4001730,	NT2RP4001739,	NT2RP4001803,	NT2RP4001822,	NT2RP4001823,
	NT2RP4001950,	NT2RP4001975,	NT2RP4002052,	NT2RP4002075,	NT2RP5003500,
30	NT2RP5003506,	NT2RP5003522,	NT2RP5003534,	OVARC1000060,	OVARC1000335,
	OVARC1000682,	OVARC1000689,	OVARC1000700,	OVARC1000722,	OVARC1000751,
	OVARC1000850,	OVARC1000890,	OVARC1000924,	OVARC1000936,	OVARC1000959,
	OVARC1000984,	OVARC1000999,	OVARC1001034,	OVARC1001055,	OVARC1001117,
35	OVARC1001129,	OVARC1001154,	OVARC1001329,	OVARC1001381,	OVARC1001391,
	OVARC1001453,	OVARC1001476,	OVARC1001506,	OVARC1001610,	OVARC1001702,
	OVARC1001703,	OVARC1001713,	OVARC1001745,	OVARC1001767,	OVARC1002127,
	OVARC1002138,	OVARC1002158,	OVARC1002165,	PLACE1000014,	PLACE1000213,
40	PLACE1000401,	PLACE1000562,	PLACE1000611,	PLACE1000656,	PLACE1000712,
	PLACE1000793,	PLACE1000909,	PLACE1000948,	PLACE1000977,	PLACE1001241,
	PLACE1001257,	PLACE1001377,	PLACE1001517,	PLACE1001610,	PLACE1001761,
	PLACE1001771,	PLACE1001817,	PLACE1001983,	PLACE1002046,	PLACE1002140,
45	PLACE1002213,	PLACE1002395,	PLACE1002437,	PLACE1002500,	PLACE1002583,
	PLACE1002714,	PLACE1002722,	PLACE1002782,	PLACE1002794,	PLACE1002851,
	PLACE1002908,	PLACE1003030,	PLACE1003044,	PLACE1003045,	PLACE1003238,
	PLACE1003296,	PLACE1003369,	PLACE1003420,	PLACE1003493,	PLACE1003537,
50	PLACE1003553,	PLACE1003596,	PLACE1003760,	PLACE1003768,	PLACE1003771,
	PLACE1003903,	PLACE1004149,	PLACE1004197,	PLACE1004203,	PLACE1004258,
	PLACE1004270,	PLACE1004277,	PLACE1004289,	PLACE1004473,	PLACE1004629,
	PLACE1004646,	PLACE1004743,	PLACE1004751,	PLACE1004793,	PLACE1004840,
55	PLACE1004969,	PLACE1005086,	PLACE1005162,	PLACE1005206,	PLACE1005313,
	PLACE1005467,	PLACE1005530,	PLACE1005595,	PLACE1005611,	PLACE1005623,
	PLACE1005763,	PLACE1005884,	PLACE1005890,	PLACE1005898,	PLACE1005934,

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	PLACE1005953,	PLACE1006157,	PLACE1006225,	PLACE1006239,	PLACE1006288,
	PLACE1006492,	PLACE1006534,	PLACE1006678,	PLACE1006754,	PLACE1006901,
	PLACE1006935,	PLACE1006956,	PLACE1007111,	PLACE1007243,	PLACE1007274,
5	PLACE1007282,	PLACE1007317,	PLACE1007375,	PLACE1007386,	PLACE1007409,
	PLACE1007416,	PLACE1007484,	PLACE1007583,	PLACE1007632,	PLACE1007645,
	PLACE1007649,	PLACE1007852,	PLACE1007877,	PLACE1007954,	PLACE1008273,
	PLACE1008309,	PLACE1008331,	PLACE1008402,	PLACE1008424,	PLACE1008429,
10	PLACE1008531,	PLACE1008532,	PLACE1008533,	PLACE1008568,	PLACE1008643,
	PLACE1008693,	PLACE1008715,	PLACE1009045,	PLACE1009094,	PLACE1009298,
	PLACE1009319,	PLACE1009338,	PLACE1009368,	PLACE1009493,	PLACE1009639,
	PLACE1009659,	PLACE1009708,	PLACE1009731,	PLACE1009845,	PLACE1009861,
15	PLACE1009935,	PLACE1009992,	PLACE1010089,	PLACE1010231,	PLACE1010321,
	PLACE1010362,	PLACE1010599,	PLACE1010622,	PLACE1010662,	PLACE1010811,
	PLACE1010917,	PLACE1010942,	PLACE1010954,	PLACE1011090,	PLACE1011214,
	PLACE1011221,	PLACE1011371,	PLACE1011399,	PLACE1011492,	PLACE1011646,
20	PLACE1011749,	PLACE1011896,	PLACE2000034,	PLACE2000062,	PLACE2000111,
	PLACE2000132,	PLACE2000176,	PLACE2000187,	PLACE2000216,	PLACE2000335,
	PLACE2000341,	PLACE2000373,	PLACE2000379,	PLACE2000398,	PLACE2000399,
	PLACE2000425,	PLACE2000438,	PLACE2000458,	PLACE2000477,	PLACE3000020,
25	PLACE3000218,	PLACE3000226,	PLACE3000242,	PLACE3000244,	PLACE3000339,
	PLACE3000373,	PLACE3000399,	PLACE3000406,	PLACE3000413,	PLACE3000455,
	PLACE4000052,	PLACE4000063,	PLACE4000129,	PLACE4000247,	PLACE4000250,
	PLACE4000259,	PLACE4000300,	PLACE4000387,	PLACE4000431,	PLACE4000487,
30	PLACE4000494,	PLACE4000522,	PLACE4000548,	PLACE4000581,	PLACE4000593,
	PLACE4000650,	THYRO1000156,	THYRO1000327,	THYRO1000394,	THYRO1000395,
	THYRO1000570,	THYRO1000748,	THYRO1000756,	THYRO1000783,	THYRO1001134,
	THYRO1001271,	THYRO1001287,	THYRO1001320,	THYRO1001401,	THYRO1001534,
35	THYRO1001537,	THYRO1001541,	THYRO1001828,	Y79AA1000258,	Y79AA1000420,
	Y79AA1000469,	Y79AA1000734,	Y79AA1000800,	Y79AA1000976,	Y79AA1001023,
	Y79AA1001177,	Y79AA1001384,	Y79AA1001394,	Y79AA1001603,	Y79AA1001647,
	Y79AA1001846,	Y79AA1001874,	Y79AA1002139,	Y79AA1002246,	Y79AA1002351,
40	Y79AA1002399,	Y79AA1002416,	MAMMA1002498,	NT2RM4002287	

The following 142 clones were categorized into glycoprotein-associated proteins.

	HEMBA1000156,	HEMBA1000518,	HEMBA1000852,	HEMBA1001071,	HEMBA1001286,
	HEMBA1001661,	HEMBA1001734,	HEMBA1001866,	HEMBA1003071,	HEMBA1003077,
45	HEMBA1003281,	HEMBA1003538,	HEMBA1003679,	HEMBA1003866,	HEMBA1005576,
	HEMBA1005581,	HEMBA1005699,	HEMBA1006038,	HEMBA1006976,	HEMBA1007301,
	HEMBB1000317,	HEMBB1000915,	HEMBB1001871,	HEMBB1001872,	HEMBB1002193,
	MAMMA1000672,	MAMMA1000897,	MAMMA1001030,	MAMMA1001388,	MAMMA1002329,
50	MAMMA1002428,	MAMMA1002573,	MAMMA1003150,	NT2RM1000648,	NT2RM1001115,
	NT2RM2000260,	NT2RM2000407,	NT2RM2000422,	NT2RM2000490,	NT2RM2001499,
	NT2RM2001659,	NT2RM2001930,	NT2RM4000820,	NT2RM4000857,	NT2RM4001810,
	NT2RM4001813,	NT2RM4001987,	NT2RM4002145,	NT2RM4002189,	NT2RM4002251,
55	NT2RM4002460,	NT2RM4002558,	NT2RP1000677,	NT2RP1000782,	NT2RP1000856,
	NT2RP1001546,	NT2RP2000056,	NT2RP2000070,	NT2RP2001295,	NT2RP2001378,
	NT2RP2001597,	NT2RP2001991,	NT2RP2002025,	NT2RP2002078,	NT2RP2002385,

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NT2RP2004587, NT2RP2004732, NT2RP2005531, NT2RP3000207, NT2RP3000531,
 NT2RP3000825, NT2RP3001140, NT2RP3002810, NT2RP3003672, NT2RP3003701,
 NT2RP3003716, NT2RP3003914, NT2RP3004148,
 5 NT2RP4000212, NT2RP4000417, NT2RP4000724, NT2RP4000817, NT2RP4000925,
 NT2RP4001150, NT2RP4001372, NT2RP4001730, NT2RP4001822, NT2RP4001823,
 NT2RP5003522, OVARC1000091, OVARC1000288, OVARC1000682, OVARC1001055,
 OVARC1001506, OVARC1001713, OVARC1002127, PLACE1000213, PLACE1000401,
 10 PLACE1002437, PLACE1002583,
 PLACE1002722, PLACE1003045, PLACE1003238, PLACE1003258, PLACE1003493,
 PLACE1004197, PLACE1004793, PLACE1005953, PLACE1005955, PLACE1006157,
 PLACE1006239, PLACE1006368, PLACE1006534, PLACE1006754, PLACE1006956,
 15 PLACE1007416, PLACE1007632, PLACE1007649, PLACE1008643, PLACE1009094,
 PLACE1009992, PLACE1010231, PLACE1010662, PLACE1011371, PLACE2000034,
 PLACE2000373, PLACE2000398, PLACE2000399, PLACE2000438, PLACE2000458,
 PLACE3000339, PLACE4000063, PLACE4000230, PLACE4000522, PLACE4000548,
 20 PLACE4000581, THYRO1000327, THYRO1000756, THYRO1001287, Y79AA1001603,
 Y79AA1001874, MAMMA1002498

The following 140 clones were categorized into signal transduction-associated proteins.

HEMBA1000303, HEMBA1000369, HEMBA1000608, HEMBA1000657, HEMBA1000919,
 25 HEMBA1001019, HEMBA1001174, HEMBA1001822, HEMBA1001921, HEMBA1002139,
 HEMBA1002212, HEMBA1002341, HEMBA1002417, HEMBA1002768, HEMBA1003250,
 HEMBA1003291, HEMBA1003645, HEMBA1004286, HEMBA1005737, HEMBA1006130,
 HEMBA1006708, HEMBB1000083, HEMBB1000266, HEMBB1000632, HEMBB1000781,
 30 HEMBB1000831, HEMBB1002193, MAMMA1000173, MAMMA1001038,
 MAMMA1001198, MAMMA1002842, MAMMA1003057, NT2RM1000702, NT2RM1000772,
 NT2RM1001072, NT2RM2000030, NT2RM2000469, NT2RM2000612, NT2RM2001221,
 NT2RM2001345, NT2RM2002128, NT2RM4000229, NT2RM4000354, NT2RM4000611,
 35 NT2RM4000798, NT2RM4001411, NT2RM4001412, NT2RM4001629, NT2RM4001758,
 NT2RM4002013, NT2RM4002527, NT2RP1000018, NT2RP1000701, NT2RP1001294,
 NT2RP1001302, NT2RP2000668, NT2RP2001440, NT2RP2001560, NT2RP2002058,
 NT2RP2002193, NT2RP2002408, NT2RP2002710, NT2RP2002929, NT2RP2003164,
 40 NT2RP2003912, NT2RP2004232, NT2RP2004768, NT2RP2006071, NT2RP2006534,
 NT2RP3000759, NT2RP3000845, NT2RP3001646, NT2RP3001857, NT2RP3001938,
 NT2RP3002004, NT2RP3002785, NT2RP3002909, NT2RP3002988, NT2RP3003800,
 NT2RP3004189, NT2RP3004544, NT2RP4000147, NT2RP4000839, NT2RP4001122,
 45 NT2RP4001148, NT2RP4001336, NT2RP4001375, NT2RP4001644, NT2RP4001725,
 NT2RP4001849, NT2RP4001896, NT2RP4001927, NT2RP4002408, NT2RP5003477,
 OVARC1000013, OVARC1000437, OVARC1000556, OVARC1000649, OVARC1000945,
 OVARC1001200,
 50 OVARC1002182, PLACE1000977, PLACE1001387, PLACE1002493, PLACE1002591,
 PLACE1003190, PLACE1003353, PLACE1004128, PLACE1004302, PLACE1004937,
 PLACE1005243, PLACE1008000, PLACE1008244, PLACE1008650, PLACE1009468,
 PLACE1009596, PLACE1009708, PLACE1009845, PLACE1010926, PLACE1011041,
 55 PLACE2000164, PLACE2000371, PLACE3000145, PLACE3000350, THYRO 1000072,
 THYRO1000748, THYRO1001120, Y79AA1000328, Y79AA1002431,
 HEMBA1001247, NT2RM2001813, NT2RM4001454, NT2RP2005140, NT2RP2005293,

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NT2RP3000487, NT2RP3003311, PLACE1000972, PLACE1003723, PLACE1005327,
PLACE3000124,

The following 321 clones were categorized into transcription -associated proteins.

5	HEMBA1000158,	HEMBA1000201,	HEMBA1000216,	HEMBA1000555,	HEMBA1000561,
	HEMBA1000851,	HEMBA1001077,	HEMBA1001137,	HEMBA1001405,	HEMBA1001510,
	HEMBA1001635,	HEMBA1001804,	HEMBA1001809,	HEMBA1001819,	HEMBA1001847,
	HEMBA1001869,	HEMBA1002035,	HEMBA1002092,	HEMBA1002177,	HEMBA1002770,
10	HEMBA1002935,	HEMBA1003408,	HEMBA1003545,	HEMBA1003568,	HEMBA1003662,
	HEMBA1003684,	HEMBA1003760,	HEMBA1003953,	HEMBA1004097,	HEMBA1004321,
	HEMBA1004353,	HEMBA1004389,	HEMBA1004479,	HEMBA1004758,	HEMBA1004973,
	HEMBA1005219,	HEMBA1005359,	HEMBA1005513,	HEMBA1005528,	HEMBA1005548,
15	HEMBA1005558,	HEMBA1005931,	HEMBA1006158,	HEMBA1006248,	HEMBA1006278,
	HEMBA1006283,	HEMBA1006347,	HEMBA1006359,	HEMBA1006559,	HEMBA1006941,
	HEMBB1000789,	HEMBB1001011,	HEMBB1001314,	HEMBB1001482,	HEMBB1001673,
	HEMBB1001749,	HEMBB1001839,	HEMBB1001908,	HEMBB1002134,	HEMBB1002217,
20	HEMBB1002342,	HEMBB1002607,	MAMMA1000183,	MAMMA1000388,	MAMMA1001105,
	MAMMA1001222,	MAMMA1001260,	MAMMA1001627,	MAMMA1001633,	MAMMA1001743,
	MAMMA1001820,	MAMMA1001837,	MAMMA1002617,	MAMMA1002650,	MAMMA1002937,
	NT2RM1000055,	NT2RM1000086,	NT2RM1000746,	NT2RM1000885,	NT2RM1000894,
25	NT2RM1001092,	NT2RM2000013,	NT2RM2000452,	NT2RM2000735,	NT2RM2000740,
	NT2RM2001035,	NT2RM2001105,	NT2RM2001575,	NT2RM2001670,	NT2RM2001716,
	NT2RM2001771,	NT2RM2002091,	NT2RM4000024,	NT2RM4000046,	NT2RM4000104,
	NT2RM4000202,	NT2RM4000531,	NT2RM4000595,	NT2RM4000733,	NT2RM4000734,
30	NT2RM4000741,	NT2RM4000751,	NT2RM4000996,	NT2RM4001092,	NT2RM4001140,
	NT2RM4001200,	NT2RM4001483,	NT2RM4001592,	NT2RM4001783,	NT2RM4001823,
	NT2RM4001828,	NT2RM4001858,	NT2RM4001979,	NT2RM4002066,	NT2RP1000086,
	NT2RP1000111,	NT2RP1000574,	NT2RP1000902,	NT2RP1001013,	NT2RP2000008,
35	NT2RP2000126,	NT2RP2000297,	NT2RP2000420,	NT2RP2001174,	NT2RP2001233,
	NT2RP2001756,	NT2RP2001869,	NT2RP2002046,	NT2RP2002252,	NT2RP2002270,
	NT2RP2002464,	NT2RP2002503,	NT2RP2002520,	NT2RP2002591,	NT2RP2002880,
	NT2RP2002939,	NT2RP2002993,	NT2RP2003243,	NT2RP2003329,	NT2RP2003347,
40	NT2RP2003480,	NT2RP2003522,	NT2RP2003564,	NT2RP2003714,	NT2RP2004013,
	NT2RP2004066,	NT2RP2004187,	NT2RP2004920,	NT2RP2004961,	NT2RP2005003,
	NT2RP2005139,	NT2RP2005325,	NT2RP2005496,	NT2RP2005701,	NT2RP2005722,
	NT2RP2005776,	NT2RP2005942,	NT2RP2006238,	NT2RP2006436,	NT2RP3000050,
45	NT2RP3000320,	NT2RP3000512,	NT2RP3000527,	NT2RP3000590,	NT2RP3000603,
	NT2RP3000605,	NT2RP3000632,	NT2RP3001057,	NT2RP3001107,	NT2RP3001111,
	NT2RP3001120,	NT2RP3001150,	NT2RP3001268,	NT2RP3001338,	NT2RP3001398,
	NT2RP3001527,	NT2RP3001688,	NT2RP3001855,	NT2RP3002165,	NT2RP3002399,
50	NT2RP3002876,	NT2RP3003133,	NT2RP3003193,	NT2RP3003251,	NT2RP3003313,
	NT2RP3003327,	NT2RP3003555,	NT2RP3004016,	NT2RP3004125,	NT2RP3004242,
	NT2RP3004428,	NT2RP3004498,	NT2RP3004566,	NT2RP3004617,	NT2RP4000210,
	NT2RP4000398,	NT2RP4000455,	NT2RP4000648,	NT2RP4000837,	NT2RP4000865,
55	NT2RP4000997,	NT2RP4001029,	NT2RP4001080,	NT2RP4001213,	NT2RP4001433,
	NT2RP4001529,	NT2RP4001551,	NT2RP4001568,	NT2RP4001638,	NT2RP4001753,
	NT2RP4001760,	NT2RP4001790,	NT2RP4001838,	NT2RP4001938,	NT2RP4002078,

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NT2RP4002081, NT2RP5003461, OVARC1000151, OVARC1000241, OVARC1000479,
 OVARC1001271, OVARC1001417, OVARC1001436, PLACE1000133, PLACE1000583,
 PLACE1000706, PLACE1000786, PLACE1000979, PLACE1001118, PLACE1001238,
 5 PLACE1001294, PLACE1001304, PLACE1001383, PLACE1001602,
 PLACE1001632, PLACE1002171, PLACE1002438, PLACE1002450, PLACE1002532,
 PLACE1002775, PLACE1002834, PLACE1003302, PLACE1003605, PLACE1003738,
 PLACE1003885, PLACE1004471, PLACE1005584, PLACE1005803, PLACE1005966,
 10 PLACE1006167, PLACE1006318, PLACE1006438, PLACE1006482, PLACE1007239,
 PLACE1007346, PLACE1007488, PLACE1007547, PLACE1007598, PLACE1007955,
 PLACE1008132, PLACE1008201, PLACE1009099, PLACE1009246, PLACE1009308,
 PLACE1009398, PLACE1009798, PLACE1010134, PLACE1010702, PLACE1010771,
 15 PLACE1010870, PLACE1011160, PLACE1011433, PLACE1011576, PLACE3000009,
 PLACE3000169, PLACE3000254, PLACE4000128, PLACE4000156, PLACE4000192,
 PLACE4000211, PLACE4000261, PLACE4000450, PLACE4000489, THYRO1000085,
 THYRO1000121, THYRO 1000242, THYRO 1000488, THYRO 1000501, THYRO 1000569,
 20 THYRO1001100, THYRO1001189, THYRO1001809, Y79AA1000013, Y79AA1000033,
 Y79AA1000037, Y79AA1000342, Y79AA1000627, Y79AA1000705, Y79AA1001299,
 Y79AA1001312, Y79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001866,
 Y79AA1002103, Y79AA1002229, Y79AA1002433, Y79AA1002472, Y79AA1002482,
 25 HEMBA1003257, NT2RM2000101, NT2RM2001797, NT2RP1000101, NT2RP2002208,
 NT2RP3001214, NT2RP3003278, NT2RP4001235, PLACE1000050, PLACE1001716,
 PLACE1002499, PLACE1007544,

The following 392 clones were categorized into disease-associated proteins.

30 HEMBA1000020, HEMBA1000216, HEMBA1000304, HEMBA1000561, HEMBA1000569,
 HEMBA1000910, HEMBA1001043, HEMBA1001059, HEMBA1001071, HEMBA1001088,
 HEMBA1001569, HEMBA1001661, HEMBA1001672, HEMBA1001819, HEMBA1001921,
 HEMBA1002267, HEMBA1002419, HEMBA1002469, HEMBA1002547, HEMBA1002555,
 35 HEMBA1002810, HEMBA1002939, HEMBA1002997, HEMBA1003148, HEMBA1003369,
 HEMBA1003417, HEMBA1003418, HEMBA1003433, HEMBA1003538, HEMBA1003555,
 HEMBA1003568, HEMBA1003569, HEMBA1003581, HEMBA1004168, HEMBA1004202,
 HEMBA1004248, HEMBA1004275, HEMBA1004321, HEMBA1004353, HEMBA1004356,
 40 HEMBA1004479, HEMBA1004509, HEMBA1004669, HEMBA1005009, HEMBA1005338,
 HEMBA1005367, HEMBA1005423, HEMBA1005528, HEMBA1005581, HEMBA1005621,
 HEMBA1005699, HEMBA1006507, HEMBA1006650, HEMBA1006652, HEMBA1006737,
 HEMBA1006807, HEMBA1006877, HEMBA1007121, HEMBA1007243, HEMBB1000119,
 45 HEMBB1000693, HEMBB1000927, HEMBB1000985, HEMBB1001068, HEMBB1001282,
 HEMBB1001339, HEMBB1001482, HEMBB1001564, HEMBB1001802, HEMBB1001905,
 HEMBB1001908, HEMBB1002217, HEMBB1002477, MAMMA1000388, MAMMA1000731,
 MAMMA1001305, MAMMA1001633, MAMMA1001868, MAMMA1002170, MAMMA1002198,
 50 MAMMA1002268, MAMMA1002485, MAMMA1002530, MAMMA1002858, MAMMA1002869,
 MAMMA1002881, MAMMA1003047, MAMMA1003146, MAMMA1003166, NT2RM1000001,
 NT2RM1000153, NT2RM1000252, NT2RM1000555, NT2RM1000770, NT2RM1000826,
 NT2RM1000850, NT2RM1001003, NT2RM1001092, NT2RM1001102, NT2RM2000191,
 55 NT2RM2000363, NT2RM2000594, NT2RM2000624, NT2RM2000714, NT2RM2000821,
 NT2RM2001035, NT2RM2001575, NT2RM2001652, NT2RM2001664, NT2RM2001668,
 NT2RM2001698, NT2RM2001803, NT2RM2001839, NT2RM4000155, NT2RM4000471,

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	NT2RM4000486,	NT2RM4000657,	NT2RM4000751,	NT2RM4000996,	NT2RM4001629,
	NT2RM4001810,	NT2RM4001819,	NT2RM4001865,	NT2RM4001876,	NT2RM4001940,
	NT2RM4002066,	NT2RM4002093,	NT2RM4002146,	NT2RM4002161,	NT2RM4002323,
5	NT2RM4002558,	NT2RM4002571,	NT2RP1000086,	NT2RP1000574,	NT2RP1000738,
	NT2RP1000825,	NT2RP1000833,	NT2RP1000959,	NT2RP1000966,	NT2RP1001013,
	NT2RP1001185,	NT2RP1001482,	NT2RP1001665,	NT2RP2000070,	NT2RP2000147,
	NT2RP2000224,	NT2RP2000248,	NT2RP2000297,	NT2RP2000310,	NT2RP2000414,
10	NT2RP2000420,	NT2RP2000523,	NT2RP2000809,	NT2RP2000812,	
	NT2RP2001233,	NT2RP2001327,	NT2RP2001378,	NT2RP2001394,	NT2RP2001397,
	NT2RP2001460,	NT2RP2001520,	NT2RP2001536,	NT2RP2001876,	NT2RP2001898,
	NT2RP2002025,	NT2RP2002058,	NT2RP2002124,	NT2RP2002325,	NT2RP2002503,
15	NT2RP2002959,	NT2RP2003000,	NT2RP2003157,	NT2RP2003164,	NT2RP2003228,
	NT2RP2003295,	NT2RP2003517,	NT2RP2003564,	NT2RP2003604,	NT2RP2003714,
	NT2RP2003737,	NT2RP2003952,	NT2RP2004013,	NT2RP2004170,	NT2RP2004587,
	NT2RP2004732,	NT2RP2004933,	NT2RP2005003,	NT2RP2005144,	NT2RP2005239,
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	NT2RP3003409,	NT2RP3003672,	NT2RP3003831,	NT2RP3004016,	NT2RP3004078,
	NT2RP3004209,	NT2RP3004258,	NT2RP3004490,	NT2RP3004534,	NT2RP3004569,
35	NT2RP3004572,	NT2RP4000109,	NT2RP4000367,	NT2RP4000376,	NT2RP4000449,
	NT2RP4000855,	NT2RP4000879,	NT2RP4000925,	NT2RP4001086,	NT2RP4001126,
	NT2RP4001150,	NT2RP4001213,	NT2RP4001276,	NT2RP4001407,	NT2RP4001433,
	NT2RP4001483,	NT2RP4001575,	NT2RP4001760,	NT2RP4001861,	NT2RP4002078,
40	NT2RP4002791,	OVARC1000014,	OVARC1000139,	OVARC1000520,	OVARC1000722,
	OVARC1000771,	OVARC1000834,	OVARC1001051,	OVARC1001113,	OVARC1001244,
	OVARC1001372,	OVARC1001417,	OVARC1001496,	OVARC1001506,	OVARC1001577,
	OVARC1001726,	OVARC1001766,	OVARC1001809,	OVARC1002165,	PLACE1000133,
45	PLACE1000383,	PLACE1000420,	PLACE1000583,	PLACE1000588,	PLACE1001171,
	PLACE1001387,	PLACE1001602,	PLACE1002046,	PLACE1002140,	PLACE1002437,
	PLACE1002474,	PLACE1002685,	PLACE1002782,	PLACE1002834,	PLACE1002908,
	PLACE1003045,	PLACE1003302,	PLACE1003353,	PLACE1003366,	PLACE1003493,
50	PLACE1003669,	PLACE1003704,	PLACE1003903,	PLACE1003968,	PLACE1004183,
	PLACE1004197,	PLACE1004277,	PLACE1004316,	PLACE1004358,	PLACE1004471,
	PLACE1004506,	PLACE1004510,	PLACE1004674,	PLACE1004777,	PLACE1004814,
	PLACE1005494,	PLACE1006040,	PLACE1006170,	PLACE1006438,	PLACE1006615,
55	PLACE1007140,	PLACE1007239,	PLACE1007257,	PLACE1007511,	PLACE1007598,
	PLACE1008177,	PLACE1008356,	PLACE1008402,	PLACE1008696,	PLACE1009027,
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 5 PLACE4000369, SKNMC1000046, SKNMC1000050, THYRO1000034, THYRO1000327,
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 10 Y79AA1000560, Y79AA1000734, Y79AA1000782, Y79AA1001391, Y79AA1001548,
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 Y79AA1002258, Y79AA1002472, Y79AA1002482,

The following 427 clones presumably belong to enzymes and/or metabolism-associated
 15 proteins. HEMBA1000012, HEMBA1000129, HEMBA1000141, HEMBA1000150, HEMBA1000542,
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 20 HEMBA1003291, HEMBA1003408, HEMBA1003538, HEMBA1003679, HEMBA1003680,
 HEMBA1004199, HEMBA1004227, HEMBA1004408, HEMBA1004509, HEMBA1004734,
 HEMBA1004768, HEMBA1005394, HEMBA1005513, HEMBA1005737, HEMBA1005815,
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 25 HEMBA1006347, HEMBA1006485, HEMBA1006521, HEMBA1006624, HEMBA1006885,
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 30 HEMBB1002042, MAMMA1000020, MAMMA1000085, MAMMA1000672, MAMMA1000713,
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 35 MAMMA1003035, NT2RM1000039, NT2RM1000132, NT2RM1000153, NT2RM1000256,
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 40 NT2RM2000577, NT2RM2000594, NT2RM2000951, NT2RM2001238, NT2RM2001547,
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 45 NT2RM4000471, NT2RM4000616, NT2RM4000657, NT2RM4000712, NT2RM4000820,
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	NT2RP2005360,	NT2RP2005457,	NT2RP2005498,	NT2RP2005549,	NT2RP2005557,
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10	NT2RP2005776,	NT2RP2005784,	NT2RP2005835,	NT2RP2005942,	NT2RP2006534,
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	NT2RP3002628,	NT2RP3002663,	NT2RP3003301,	NT2RP3003385,	NT2RP3003490,
	NT2RP3003659,	NT2RP3003825,	NT2RP3003831,	NT2RP3003846,	NT2RP3003914,
	NT2RP3004148,	NT2RP3004209,	NT2RP3004378,	NT2RP3004669,	NT2RP3004670,
20	NT2RP4000259,	NT2RP4000312,	NT2RP4000367,	NT2RP4000417,	
	NT2RP4000457,	NT2RP4000657,	NT2RP4000817,	NT2RP4000855,	NT2RP4000879,
	NT2RP4000927,	NT2RP4000973,	NT2RP4000997,	NT2RP4001041,	NT2RP4001079,
	NT2RP4001095,	NT2RP4001143,	NT2RP4001219,	NT2RP4001375,	NT2RP4001389,
25	NT2RP4001483,	NT2RP4001555,	NT2RP4001592,	NT2RP4001644,	NT2RP4001730,
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	OVARC1000556,	OVARC1000682,	OVARC1000722,	OVARC1000751,	OVARC1000885,
30	OVARC1000915,	OVARC1001107,	OVARC1001713,	OVARC1001762,	OVARC1001809,
	OVARC1001942,	OVARC1002156,	OVARC1002165,	PLACE1000007,	PLACE1000142,
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35	PLACE1001692,	PLACE1001748,	PLACE1001781,	PLACE1001817,	PLACE1001869,
	PLACE1001989,	PLACE1002073,	PLACE1002598,	PLACE1002908,	PLACE1002991,
	PLACE1003174,	PLACE1003176,	PLACE1003709,	PLACE1003885,	PLACE1003888,
	PLACE1003903,	PLACE1003915,	PLACE1004270,	PLACE1004428,	PLACE1004437,
40	PLACE1004751,	PLACE1004804,	PLACE1004918,	PLACE1005243,	PLACE1005305,
	PLACE1005373,	PLACE1005656,	PLACE1005763,	PLACE1005804,	PLACE1005953,
	PLACE1005955,	PLACE1006011,	PLACE1006469,	PLACE1006534,	PLACE1006626,
	PLACE1006731,	PLACE1006819,	PLACE1006829,	PLACE1006878,	PLACE1007226,
45	PLACE1007416,	PLACE1007649,	PLACE1007706,	PLACE1007729,	PLACE1007954,
	PLACE1007958,	PLACE1008111,	PLACE1008275,	PLACE1008330,	PLACE1008643,
	PLACE1009094,	PLACE1009130,	PLACE1009444,	PLACE1009763,	PLACE1009861,
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50	PLACE1010662,	PLACE1011046,	PLACE1011219,	PLACE1011229,	PLACE1011332,
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55	PLACE4000401,	PLACE4000548,	PLACE4000654,	SKNMC1000050,	THYRO1000072,
	THYRO1000197,	THYRO1000288,	THYRO1000605,	THYRO1000662,	THYRO1000756,
	THYRO1000852,	THYRO1000926,	THYRO1000934,	THYRO1000951,	THYRO1000983,

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THYRO1001003, THYRO1001287, THYRO1001374, THYRO1001406, THYRO1001617,
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 5 Y79AA1001827, Y79AA1002027, Y79AA1002209, Y79AA1002211, Y79AA1002361,
 Y79AA1002416, HEMBA1005732, MAMMA1000402,

The following 217 clones presumably belong to ATP- and/or GTP-binding proteins.

HEMBA1000012, HEMBA1000129, HEMBA1000185, HEMBA1000491, HEMBA1000531,
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 HEMBA1003250, HEMBA1003291, HEMBA1003369, HEMBA1003555, HEMBA1003560,
 HEMBA1004131, HEMBA1004199, HEMBA1004202, HEMBA1004354, HEMBA1004697,
 15 HEMBA1005047, HEMBA1005595, HEMBA1007018, HEMBA1007151, HEMBB1000083,
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 20 NT2RM1000388, NT2RM1000702, NT2RM1000772, NT2RM1000924, NT2RM2000469,
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 NT2RM4000496, NT2RM4000611, NT2RM4000733, NT2RM4000820, NT2RM4001084,
 25 NT2RM4001178, NT2RM4001344, NT2RM4001444, NT2RM4001592, NT2RM4001714,
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 55 PLACE1007697, PLACE1007946, PLACE1008244, PLACE1009404, PLACE1009476,
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 PLACE1011109, PLACE1011114, PLACE1011310, PLACE1011922, PLACE2000014,

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PLACE2000039, PLACE2000274, PLACE2000404, PLACE2000427, PLACE3000350,
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 5 Y79AA1001963, Y79AA1002209,

The following 320 clones presumably belong to nuclear proteins.

HEMBA1000005, HEMBA1000158, HEMBA1000216, HEMBA1000561, HEMBA1000591,
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 10 HEMBA1001809, HEMBA1001819, HEMBA1001824, HEMBA1001847, HEMBA1001869,
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 HEMBA1002951, HEMBA1002999, HEMBA1003408, HEMBA1003545, HEMBA1003662,
 HEMBA1003684, HEMBA1003690, HEMBA1003760, HEMBA1004203, HEMBA1004321,
 15 HEMBA1004353, HEMBA1004479, HEMBA1004973, HEMBA1005219, HEMBA1005359,
 HEMBA1005558, HEMBA1005931, HEMBA1006278, HEMBA1006283, HEMBA1006359,
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 20 HEMBB1002217, MAMMA1000183, MAMMA1000731, MAMMA1001105, MAMMA1001222,
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 30 NT2RM4000290, NT2RM4000531, NT2RM4000751, NT2RM4000996, NT2RM4001092,
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 55 NT2RP3003555, NT2RP3004016, NT2RP3004206, NT2RP3004424, NT2RP3004428,
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 5 OVARC1000241, OVARC1000326, OVARC1000556, OVARC1000846, OVARC1001038,
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 PLACE1003519, PLACE1003521, PLACE1003605, PLACE1003704, PLACE1003738,
 PLACE1003885, PLACE1003923, PLACE1004302, PLACE1004471, PLACE1004564,
 15 PLACE1004814, PLACE1004902, PLACE1005287, PLACE1005876, PLACE1005966,
 PLACE1006167, PLACE1006438, PLACE1006482, PLACE1006829, PLACE1006878,
 PLACE1006917, PLACE1007014, PLACE1007547, PLACE1007598, PLACE1007688,
 PLACE1007969, PLACE1008044, PLACE1008132, PLACE1008603, PLACE1009099,
 20 PLACE1009130, PLACE1009308, PLACE1009398, PLACE1010134, PLACE1010194,
 PLACE1010702, PLACE1010720, PLACE1010870, PLACE1011056, PLACE1011433,
 PLACE1011664, PLACE2000014, PLACE2000427, PLACE3000009, PLACE3000169,
 PLACE4000014, PLACE4000156, PLACE4000192, PLACE4000261, PLACE4000326,
 25 PLACE4000489, SKNMC1000011, THYRO1000085, THYRO1000242, THYRO1000585,
 THYRO1001100, THYRO1001189, THYRO1001809, Y79AA1000037, Y79AA1000214,
 Y79AA1000231, Y79AA1000589, Y79AA1000752, Y79AA1001391, Y79AA1001613,
 Y79AA1001705, Y79AA1001963, Y79AA1002431, Y79AA1002472, Y79AA1002482,
 30 The following 296 clones presumably belong to DNA- and/or RNA-binding proteins.
 HEMBA1000158, HEMBA1000216, HEMBA1000561, HEMBA1000591, HEMBA1000851,
 HEMBA1001088, HEMBA1001137, HEMBA1001405, HEMBA1001510, HEMBA1001804,
 HEMBA1001809, HEMBA1001819, HEMBA1001847, HEMBA1001869, HEMBA1002177,
 35 HEMBA1002935, HEMBA1003408, HEMBA1003545, HEMBA1003568,
 HEMBA1003591, HEMBA1003662, HEMBA1003684, HEMBA1003760, HEMBA1003783,
 HEMBA1003805, HEMBA1003953, HEMBA1004321, HEMBA1004354, HEMBA1004389,
 HEMBA1004479, HEMBA1004669, HEMBA1004847, HEMBA1004973, HEMBA1005202,
 40 HEMBA1005359, HEMBA1005931, HEMBA1006248, HEMBA1006278, HEMBA1006283,
 HEMBA1006359, HEMBA1006652, HEMBA1007087, HEMBA1007194, HEMBB1000264,
 HEMBB1000789, HEMBB1001011, HEMBB1001482, HEMBB1001736, HEMBB1001749,
 HEMBB1001839, HEMBB1002217, MAMMA1000183, MAMMA1000284, MAMMA1000731,
 45 MAMMA1001105, MAMMA1001222, MAMMA1001260, MAMMA1001743, MAMMA1001837,
 MAMMA1002385, MAMMA1002617, MAMMA1002869, MAMMA1002937, MAMMA1003011,
 NT2RM1000086, NT2RM1000539, NT2RM1000555, NT2RM1000666, NT2RM1000691,
 NT2RM1000826, NT2RM1000885, NT2RM1001059, NT2RM1001092, NT2RM2000371,
 50 NT2RM2000624, NT2RM2000735, NT2RM2001105, NT2RM2001424, NT2RM2001575,
 NT2RM2001605, NT2RM2001670, NT2RM2001771, NT2RM2001823, NT2RM2001989,
 NT2RM2002004, NT2RM2002014, NT2RM2002088, NT2RM2002091, NT2RM4000046,
 NT2RM4000104, NT2RM4000167, NT2RM4000191, NT2RM4000202, NT2RM4000531,
 55 NT2RM4000595, NT2RM4000733, NT2RM4000751, NT2RM4000996, NT2RM4001092,
 NT2RM4001140,
 NT2RM4001178, NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM4001783,

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	NT2RM4001823,	NT2RM4001828,	NT2RM4001858,	NT2RM4001880,	NT2RM4001979,
	NT2RM4002093,	NT2RM4002109,	NT2RP1000470,	NT2RP1000493,	NT2RP1000574,
	NT2RP1000902,	NT2RP1000966,	NT2RP1001013,	NT2RP1001073,	NT2RP1001080,
5	NT2RP2000008,	NT2RP2000153,	NT2RP2000258,	NT2RP2000297,	NT2RP2001127,
	NT2RP2001174,	NT2RP2001233,	NT2RP2001511,	NT2RP2001756,	NT2RP2001869,
	NT2RP2002079,	NT2RP2002099,	NT2RP2002503,	NT2RP2002591,	NT2RP2002939,
	NT2RP2003157,	NT2RP2003329,	NT2RP2003347,	NT2RP2003480,	NT2RP2003522,
10	NT2RP2003564,	NT2RP2003714,	NT2RP2004187,	NT2RP2004568,	NT2RP2004920,
	NT2RP2005003,	NT2RP2005139,	NT2RP2005168,	NT2RP2005436,	NT2RP2005496,
	NT2RP2005701,	NT2RP2005763,	NT2RP2005776,	NT2RP2005942,	NT2RP2006043,
	NT2RP2006436,	NT2RP2006464,	NT2RP3000050,	NT2RP3000512,	NT2RP3000527,
15	NT2RP3000562,	NT2RP3000590,	NT2RP3000603,	NT2RP3000624,	NT2RP3000632,
	NT2RP3000994,	NT2RP3001057,	NT2RP3001107,	NT2RP3001120,	NT2RP3001150,
	NT2RP3001155,	NT2RP3001338,	NT2RP3001398,	NT2RP3001472,	NT2RP3001672,
	NT2RP3001688,	NT2RP3001724,	NT2RP3001792,	NT2RP3001855,	NT2RP3002165,
20	NT2RP3002399,	NT2RP3002876,	NT2RP3003138,	NT2RP3003193,	NT2RP3003251,
	NT2RP3003327,	NT2RP3003555,	NT2RP3004013,	NT2RP3004078,	NT2RP3004428,
	NT2RP3004490,	NT2RP3004566,	NT2RP3004594,	NT2RP3004617,	NT2RP3004618,
	NT2RP4000111,	NT2RP4000398,	NT2RP4000455,	NT2RP4000518,	NT2RP4000648,
25	NT2RP4000865,	NT2RP4000929,	NT2RP4001080,	NT2RP4001095,	NT2RP4001213,
	NT2RP4001433,	NT2RP4001568,	NT2RP4001696,	NT2RP4001753,	NT2RP4001838,
	NT2RP4001938,	NT2RP4002078,	OVARC1000006,	OVARC1000087,	OVARC1000241,
	OVARC1000746,	OVARC1000846,	OVARC1001232,	OVARC1001271,	OVARC1001306,
30	OVARC1001987,	OVARC1002112,	PLACE1000406,	PLACE1000583,	PLACE1000979,
	PLACE1001118,	PLACE1001632,	PLACE1001739,	PLACE1002438,	PLACE1002532,
	PLACE1002775,	PLACE1002834,	PLACE1003302,	PLACE1003519,	PLACE1003605,
	PLACE1003704,	PLACE1003738,	PLACE1003885,	PLACE1004471,	PLACE1004564,
35	PLACE1004814,	PLACE1005584,	PLACE1005876,	PLACE1005951,	PLACE1006196,
	PLACE1006482,	PLACE1006488,	PLACE1006531,	PLACE1006917,	PLACE1007346,
	PLACE1007547,	PLACE1007598,	PLACE1007688,	PLACE1007969,	PLACE1008132,
	PLACE1009099,	PLACE1009246,	PLACE1009398,	PLACE1009476,	PLACE1009622,
40	PLACE1010053,	PLACE1010194,	PLACE1010702,	PLACE1010870,	PLACE1011056,
	PLACE1011114,	PLACE1011433,	PLACE2000427,	PLACE3000009,	PLACE3000169,
	PLACE4000014,	PLACE4000156,	PLACE4000192,	PLACE4000261,	
	PLACE4000489,	SKNMC1000091,	THYRO 1000085,	THYRO1000242,	THYRO1000501,
45	THYRO1001100,	THYRO1001189,	THYRO1001809,	Y79AA1000037,	Y79AA1000349,
	Y79AA1000752,	Y79AA1001211,	Y79AA1001312,	Y79AA1001391,	Y79AA1001613,
	Y79AA1002103,	Y79AA1002472,	Y79AA1002482,	HEMBA1004596,	OVARC1000148,
	PLACE1003334,	THYRO1001661,			
50	The following 66 clones presumably belong to the category of RNA synthesis-associated proteins.				
	HEMBA1000591,	HEMBA1001579,	HEMBA1003179,	HEMBA1003591,	HEMBA1006278,
	HEMBA1000226,	NT2RM1000187,	NT2RM1000852,	NT2RM2000624,	NT2RM2001989,
55	NT2RM2002100,	NT2RM4000191,	NT2RM4001178,	NT2RM4002093,	NT2RP1000035,
	NT2RP1000272,	NT2RP1000470,	NT2RP1001080,	NT2RP2000153,	NT2RP2002928,
	NT2RP2003157,	NT2RP2004568,	NT2RP2005126,	NT2RP2005436,	NT2RP2005539,

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NT2RP2005605, NT2RP2005776, NT2RP2005942, NT2RP2006043, NT2RP2006238,
 NT2RP3000361, NT2RP3000397, NT2RP3001671, NT2RP3004504, NT2RP4000078,
 NT2RP4000111, NT2RP4000481, NT2RP4000518, NT2RP4000614, NT2RP4000929,
 5 NT2RP4001696, NT2RP4002058, OVARC1001232, OVARC1001577, PLACE1000406,
 PLACE1000596, PLACE1000755, PLACE1001739, PLACE1003704, PLACE1003885,
 PLACE1004564, PLACE1004814, PLACE1004902, PLACE1005373, PLACE1005646,
 PLACE1005876, PLACE1006196, PLACE1006626, PLACE1006878, PLACE1006917,
 10 PLACE1009476, PLACE1009925, PLACE1010194, PLACE1011114, THYRO1000121,
 Y79AA1001963,

The following 184 clones presumably belong to protein synthesis- and/or protein transport-associated proteins.

15 HEMBA1000012, HEMBA1000141, HEMBA1000592, HEMBA1003617, HEMBA1003773,
 HEMBA1004202, HEMBA1004276, HEMBA1004734, HEMBA1004847, HEMBA1004929,
 HEMBA1004930, HEMBA1005047, HEMBA1005202, HEMBA1006031, HEMBA1006272,
 HEMBA1006474, HEMBA1006652, HEMBA1006914, HEMBA1006973, HEMBA1007224,
 20 HEMBB1000915, HEMBB1001112, HEMBB1001137, HEMBB1001736, HEMBB1001831,
 HEMBB1001915, MAMMA1000085, MAMMA1000734, MAMMA1001008, MAMMA1002170,
 MAMMA1002219, MAMMA1002236, MAMMA1002619, NT2RM1000661, NT2RM1000833,
 NT2RM2000092, NT2RM2000504, NT2RM2000577, NT2RM2000821, NT2RM2001201,
 25 NT2RM2001592, NT2RM2001613, NT2RM2001648, NT2RM2001730, NT2RM2001760,
 NT2RM2002055, NT2RM4000155, NT2RM4000169, NT2RM4000344, NT2RM4000356,
 NT2RM4000421, NT2RM4000712, NT2RM4001054, NT2RM4001203, NT2RM4001382,
 NT2RM4001444, NT2RM4002062, NT2RM4002205, NT2RM4002623, NT2RP1000326,
 30 NT2RP1000522, NT2RP1000547, NT2RP1000746, NT2RP1000947, NT2RP1001569,
 NT2RP2000147, NT2RP2000710, NT2RP2000880, NT2RP2000943, NT2RP2001290,
 NT2RP2001392, NT2RP2001601, NT2RP2001613, NT2RP2001660, NT2RP2001740,
 NT2RP2002124, NT2RP2002606, NT2RP2002862, NT2RP2002959, NT2RP2002980,
 35 NT2RP2003137, NT2RP2003158, NT2RP2003391, NT2RP2003394, NT2RP2003401,
 NT2RP2003433, NT2RP2003704, NT2RP2003713, NT2RP2003737, NT2RP2003760,
 NT2RP2003981, NT2RP2004366, NT2RP2004389, NT2RP2004791, NT2RP2005012,
 NT2RP2005116, NT2RP2005360, NT2RP2005763, NT2RP2005784, NT2RP3000366,
 40 NT2RP3000759, NT2RP3000968, NT2RP3001113, NT2RP3001690, NT2RP3002045,
 NT2RP3002151, NT2RP3002529, NT2RP3002671, NT2RP3003301, NT2RP3003846,
 NT2RP3003876, NT2RP3004209, NT2RP4000370, NT2RP4000457, NT2RP4000879,
 NT2RP4000927, NT2RP4001041, NT2RP4001117, NT2RP4001313, NT2RP4001315,
 45 NT2RP4001574, NT2RP4001592, OVARC1000013, OVARC1000071, OVARC1000085,
 OVARC1000465, OVARC1000564, OVARC1000771, OVARC1000862,
 OVARC1001171, OVARC1001180, OVARC1001342, PLACE1000007, PLACE1000061,
 PLACE1000081, PLACE1000492, PLACE1000863, PLACE1001092, PLACE1001748,
 50 PLACE1002090, PLACE1003174, PLACE1003915, PLACE1004104, PLACE1004270,
 PLACE1004743, PLACE1005557, PLACE1005813, PLACE1006170, PLACE1006488,
 PLACE1006829, PLACE1007706, PLACE1007729, PLACE1008273, PLACE1008402,
 PLACE1008790, PLACE1008813, PLACE1009094, PLACE1009130, PLACE1009477,
 55 PLACE1009721, PLACE1009845, PLACE1010074, PLACE1010547, PLACE1011109,
 PLACE1011229, PLACE1011477, PLACE1012031, PLACE2000404, PLACE3000059,
 PLACE3000121, PLACE4000269, PLACE4000654, SKNMC1000011, THYRO1000983,

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THYRO1001003, THYRO1001313, Y79AA1000560, Y79AA1000784, Y79AA1000968,
Y79AA1001493, Y79AA1001875, Y79AA1002027, Y79AA1002209, HEMBA1006284,

The following 130 clones presumably belong to cytoskeleton-associated proteins.

5 HEMBA1000156, HEMBA1000168, HEMBA1000411, HEMBA1000588, HEMBA1001043,
HEMBA1001651, HEMBA1001661, HEMBA1002102, HEMBA1002161, HEMBA1002939,
HEMBA1003235, HEMBA1003581, HEMBA1004499, HEMBA1004534, HEMBA1004697,
HEMBA1004929, HEMBA1004972, HEMBA1005582, HEMBA1005595, HEMBA1006344,
10 HEMBA1006737, HEMBB1001175, HEMBB1001282, HEMBB1001562, HEMBB1001802,
MAMMA1000824, MAMMA1001041, MAMMA1001576, MAMMA1001679, MAMMA1001735,
MAMMA1002297, MAMMA1002351, MAMMA1002622, MAMMA1002637, MAMMA1003127,
NT2RM1000850, NT2RM1000898, NT2RM2000030, NT2RM2000260, NT2RM2000691,
15 NT2RM2001324, NT2RM4000169, NT2RM4000229, NT2RM4000515, NT2RM4001217,
NT2RP1000202, NT2RP1000348, NT2RP1000460,
NT2RP1000478, NT2RP1001033, NT2RP1001294, NT2RP1001302, NT2RP2000070,
NT2RP2000812, NT2RP2000814, NT2RP2001168, NT2RP2001245, NT2RP2001634,
20 NT2RP2001900, NT2RP2003307, NT2RP2003394, NT2RP2004041, NT2RP2004242,
NT2RP2004538, NT2RP2004587, NT2RP2004681, NT2RP2004732, NT2RP2004978,
NT2RP2005491, NT2RP2005531, NT2RP2005712, NT2RP2006275, NT2RP3000753,
NT2RP3001113, NT2RP3001216, NT2RP3001239, NT2RP3001272, NT2RP3001554,
25 NT2RP3001690, NT2RP3001799, NT2RP3002688, NT2RP3003061, NT2RP3003185,
NT2RP3003230, NT2RP3004569, NT2RP3004578, NT2RP4001004, NT2RP4001086,
NT2RP4001256, NT2RP4001567, NT2RP4001927, OVARC1000001, OVARC1000106,
OVARC1000437, OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050,
30 PLACE1001104, PLACE1002571,
PLACE1002591, PLACE1002655, PLACE1002714, PLACE1003625, PLACE1005287,
PLACE1006552, PLACE1007946, PLACE1008426, PLACE1010148, PLACE1010547,
PLACE1010743, PLACE1010896, PLACE1010960, PLACE1011310, PLACE1011922,
35 PLACE2000216, PLACE2000274, PLACE2000371, PLACE2000458, PLACE3000145,
PLACE3000416, PLACE4000009, THYRO1000132, THYRO1001405, THYRO1001458,
Y79AA1000368, Y79AA1000794, Y79AA1000833, Y79AA1000962, Y79AA1002208,

The following 54 clones presumably belong to cell division-associated and/or cell proliferation-associated proteins.

40 HEMBA1001019, HEMBA1001595, HEMBA1002363, HEMBA1002997, HEMBA1003136,
HEMBA1003369, HEMBA1004131, HEMBA1004354, HEMBA1005621, HEMBB1000037,
HEMBB1000264, MAMMA1001768, MAMMA1002769, NT2RM1000354, NT2RM1000430,
45 NT2RM1000874, NT2RM2001256, NT2RM2001743, NT2RM2001896, NT2RM2002145,
NT2RM4000215, NT2RM4001714, NT2RP1000163, NT2RP1000333, NT2RP1000439,
NT2RP2000346, NT2RP2001397, NT2RP2002595, NT2RP2003177, NT2RP2003596,
NT2RP2003912, NT2RP2004396, NT2RP2005037, NT2RP2005520, NT2RP2005669,
50 NT2RP2005835, NT2RP3001730, NT2RP3002081, NT2RP4000210, NT2RP4000415,
NT2RP4001414, NT2RP4001634, OVARC1000013, OVARC1000937,
PLACE1001383, PLACE1002433, PLACE1004316, PLACE1005287, PLACE1008808,
PLACE1010720, PLACE1010833, Y79AA1000748, Y79AA1001236, Y79AA1001394

55 The following 36 clones presumably belong to the category of embryogenesis- and/or development-associated proteins:

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HEMBA1000518, HEMBA1001847, HEMBA1001869, HEMBA1003545, HEMBA1004973,
HEMBB1002442, MAMMA1001837, NT2RM2001670, NT2RM4000046, NT2RM4000531,
NT2RM4001140, NT2RM4001858, NT2RP2002078, NT2RP2004187, NT2RP2006436,
5 NT2RP3000603, NT2RP3000994, NT2RP3001580, NT2RP3001708, NT2RP3003071,
NT2RP3004472, NT2RP3004617, NT2RP4000246, NT2RP4001567, OVARC1000304,
OVARC1000746, PLACE1000793, PLACE1002532, PLACE1003258, PLACE1003625,
PLACE1004460, PLACE1009622, PLACE4000558, THYRO1000085, Y79AA1001391,
10 Y79AA1001692

The following 30 clones presumably belong to cellular defense-associated proteins.
HEMBA1000005, HEMBA1000531, HEMBA1003417, HEMBA1006253, NT2RM4000354,
NT2RM4001880, NT2RP1000333, NT2RP1000493, NT2RP2000006, NT2RP2000045,
15 NT2RP2000809, NT2RP2001536, NT2RP2002464, NT2RP2004920, NT2RP2005037,
NT2RP3000590, NT2RP3001426, NT2RP3002062, NT2RP3002785, NT2RP3004262,
NT2RP4001555, NT2RP4001638, PLACE1006958, PLACE1008275, PLACE1009113,
PLACE1011858, PLACE4000014, THYRO1000684, Y79AA1002139, Y79AA1002229

20 Although it is unclear whether or not 261 clones out of clones other than the above-mentioned
clones belong to any of the above-described categories, these clones are predicted to have
some functions, based on the homology search using their full-length sequences.

HEMBA1000030, HEMBA1000307, HEMBA1000333, HEMBA1000488, HEMBA1000523,
25 HEMBA1001197, HEMBA1001302, HEMBA1001455, HEMBA1001675, HEMBA1001714,
HEMBA1001744, HEMBA1001967, HEMBA1002151, HEMBA1002215, HEMBA1002458,
HEMBA1002777, HEMBA1003098, HEMBA1003199, HEMBA1003615, HEMBA1003836,
HEMBA1004295, HEMBA1004573, HEMBA1004604, HEMBA1004795, HEMBA1005101,
30 HEMBA1005201, HEMBA1005206, HEMBA1005530, HEMBA1005666, HEMBA1005990,
HEMBA1006268, HEMBA1006398, HEMBA1006445, HEMBA1007174, HEMBA1007251,
HEMBB1000036, HEMBB1000144, HEMBB1000973, HEMBB1001058, HEMBB1001234,
HEMBB1001288, HEMBB1001331, HEMBB1001384, HEMBB1002266, HEMBB1002510,
35 HEMBB1002705, MAMMA1000055, MAMMA1000625, MAMMA1001075, MAMMA1001181,
MAMMA1001259, MAMMA1001730, MAMMA1002143, MAMMA1002699, MAMMA1002972,
MAMMA1003113, NT2RM1000118, NT2RM1000186, NT2RM1000244, NT2RM1000421,
NT2RM1000499, NT2RM1000623, NT2RM1000883, NT2RM2000502, NT2RM2000599,
40 NT2RM2000718, NT2RM2001065, NT2RM2001196, NT2RM2001983, NT2RM2002109,
NT2RM2002142, NT2RM4000030, NT2RM4000139, NT2RM4000156, NT2RM4000386,
NT2RM4000590, NT2RM4001047, NT2RM4001155, NT2RM4001256, NT2RM4001320,
NT2RM4001340, NT2RM4001347, NT2RM4001371, NT2RM4001582, NT2RM4001611,
45 NT2RM4001731, NT2RM4001969, NT2RM4002034, NT2RM4002075, NT2RM4002226,
NT2RP1000040, NT2RP1000363, NT2RP1000481, NT2RP1000513, NT2RP1000733,
NT2RP1000860, NT2RP1000954, NT2RP1001011, NT2RP1001395, NT2RP1001457,
NT2RP1001494, NT2RP2000054, NT2RP2000067, NT2RP2000133, NT2RP2000157,
50 NT2RP2000764, NT2RP2000965, NT2RP2001839, NT2RP2001883, NT2RP2001976,
NT2RP2001985, NT2RP2002185, NT2RP2002442, NT2RP2002727, NT2RP2002741,
NT2RP2002986, NT2RP2003121, NT2RP2003265, NT2RP2003272, NT2RP2003857,
NT2RP2003871, NT2RP2004425, NT2RP2004476, NT2RP2004710, NT2RP2004816,
55 NT2RP2005441, NT2RP2005490, NT2RP2005620, NT2RP2005654,
NT2RP2005675, NT2RP2005753, NT2RP2005841, NT2RP2006598, NT2RP3000047,

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NT2RP3000233, NT2RP3000868, NT2RP3000869, NT2RP3001399, NT2RP3001407,
 NT2RP3001457, NT2RP3001587, NT2RP3001712, NT2RP3001819, NT2RP3001854,
 NT2RP3001931, NT2RP3002273, NT2RP3002631, NT2RP3002682, NT2RP3002770,
 5 NT2RP3002818, NT2RP3002948, NT2RP3002972, NT2RP3003032, NT2RP3003290,
 NT2RP3003411, NT2RP3003491, NT2RP3003500, NT2RP3003726, NT2RP3004348,
 NT2RP3004507, NT2RP4000129, NT2RP4000498, NT2RP4000528, NT2RP4000737,
 NT2RP4000979, NT2RP4001010, NT2RP4001207, NT2RP4001228, NT2RP4001260,
 10 NT2RP4001339, NT2RP4001351, NT2RP4001474, NT2RP4001966, NT2RP4002018,
 OVARC1000209, OVARC1000876, OVARC1001065, OVARC1001092, OVARC1001419,
 OVARC1001555, OVARC1001711, OVARC1001943, PLACE1000004, PLACE1000066,
 PLACE1000610, PLACE1000636, PLACE1000769, PLACE1000987, PLACE1001036,
 15 PLACE1001845, PLACE1001920, PLACE1002665, PLACE1003602, PLACE1003611,
 PLACE1004256, PLACE1004550, PLACE1004868, PLACE1004930, PLACE1005052,
 PLACE1005102, PLACE1005176, PLACE1005187, PLACE1005331, PLACE1005727,
 PLACE1006003, PLACE1006335, PLACE1006385, PLACE1006506, PLACE1007105,
 20 PLACE1007537, PLACE1007705, PLACE1007791, PLACE1007897, PLACE1008080,
 PLACE1008368, PLACE1008398, PLACE1008465, PLACE1008627, PLACE1009020,
 PLACE1009060, PLACE1009186, PLACE1009443, PLACE1009571, PLACE1009670,
 PLACE1010105, PLACE1010261, PLACE1010310, PLACE1010522, PLACE1010579,
 25 PLACE1010628, PLACE1010661, PLACE1010761, PLACE1011185, PLACE1011340,
 PLACE1011586, PLACE2000246, PLACE2000411, PLACE3000477, THYRO1000173,
 THYRO1000401, THYRO1000666, THYRO1001033, THYRO1001347, THYRO1001656,
 THYRO1001703, THYRO1001721, Y79AA1000059, Y79AA1000181, Y79AA1000268,
 30 Y79AA1000313, Y79AA1000540, Y79AA1000966, Y79AA1000985, Y79AA1001323,
 Y79AA1001402, Y79AA1001679, Y79AA1001923, Y79AA1002083, Y79AA1002307,
 Y79AA1002311, Y79AA1002487,

In some cases, the predicted functions based on the partial sequences are different from
 35 those based on the full-length sequences. The reason is that a protein does not always belong
 solely to a single category of the above-described functional categories, and therefore, a
 protein may belong to two or more of the predicted functional categories. Besides, additional
 functions can be found for the clones classified into these functional categories by further
 40 analyses.

Since the protein encoded by clones of the invention contains full-length amino acid
 sequence, it is possible to analyze its biological activity, and its effect on cellular
 conditions such as cell proliferation and differentiation by expressing the protein as a
 45 recombinant protein using an appropriate expression system, injecting the recombinant into the
 cell, or raising a specific antibody against the protein.

If the protein is a secretory protein, membrane protein, or protein associated with
 glycoprotein, signal transduction, or transcription, its biological activity can be analyzed by
 50 the methods in "Gene Transcription" (Hames B.D., and Higgins S.J. edit, (1993)), "Glycobiology"
 (Fukuda M., and Kobata A. edit, (1993)), "Growth Factors" (McKay I., and Leigh I. edit, (1993)),
 "Extracellular Matrix" (Haralson M.A., and Hassell J.R. edit, (1995)), "Transcription Factors"
 (Latchman D.S. edit, (1993)), "Signal Transduction" (Milligans G. edit, (1992)), "Protein
 55 Phosphorylation" (Hardies G.D. edit, (1993), and "Ion Channels" (Ashley R.H. edit, (1995))
 featured in "The Practical Approach Series" (IRL PRESS), or "Signal Transduction Protocols"

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(Kendall D.A., and Hill S.J. edit, (1995), "Glycoprotein Analysis in Biomedicine" (Hounsell E.F. edit, (1993)), featured in "Method in Molecular Biology" (Humana Press).

5 As to a protein associated with a disease, it is possible to perform a functional analysis as described above, but also possible to analyze correlation between the expression or the activity of the protein and a certain disease by using a specific antibody that is obtained by using expressed protein. Alternatively, it is possible to utilize the database Online Mendelian Inheritance in Man (OMIM) (<http://www.ncbi.nlm.nih.gov/Omim/>), which is a database of human
10 genes and diseases, to analyze the protein.

New information is constantly being deposited in the OMIM database. Therefore, it is possible for one skilled in the art to find a new relationship between a particular disease and a gene of the present invention in the most up-to-date database.

15 Also, as for a secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein, etc., search of the OMIM with the following keywords resulted in the finding that the proteins are associated with many diseases (the result of the OMIM search for secrete and membrane proteins is shown below).
20 Also, association between proteins associated to signal transduction or transcription and diseases is reported in "Transcription Factor Research-1999" (Fujii, Tamura, Kageyama, and Satake edit, (1999) Jikken-Igaku Zoukan, Vol.17, No.3), and "Gene Medicine" ((1999) Vol.3, No.2).
25 For example, in tumors, many proteins have been shown to play a role, including secretory proteins, membrane proteins, and proteins associated with signal transduction, glycoprotein, and transcription, and also proteins associated with metabolism, cytoskeleton, and cell cycle, as described in "Tumor Biology" (Matsubara S. (1992) Syoukabou Life Science series). Thus, besides the proteins associated with diseases, many proteins described above are also
30 potentially associated with diseases, and thus useful as a target in the medicinal industry.

The result of the OMIM search for secretory and membrane proteins is shown below, in which the keywords,

- 35 (1) secretion protein,
(2) membrane protein,
40 (3) channel, and
(4) extracellular matrix were used.

45 Shown in the search result are only the accession numbers in the OMIM. Using the number, data showing the relationship between a disease and a gene or protein can be seen. The OMIM data has been renewed everyday.

50 1) Secretion protein
268 entries found, searching for "secretion protein"
104760, 176860, 160900, 107400, 118910, 139320, 603850, 147572, 176880, 600946,
55 603215, 157147, 600174, 151675, 170280, 179512, 179513, 138120, 179509, 246700,
179510, 600626, 179511, 600998, 109270, 601489, 154545, 179490, 185860, 603216,

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122559, 601746, 147290, 602672, 146770, 603062, 179508, 131230, 601591, 602421,
139250, 167805, 167770, 600041, 600564, 118825, 601146, 300090, 600753, 601652,
600759, 600768, 602434, 182590, 603166, 308230, 602534, 603489, 107470, 150390,
5 104610, 173120, 158106, 143890, 306900, 308700, 134797, 137350, 227500, 176300,
107730, 600760, 138079, 120180, 120160, 120150, 124092, 138160, 101000, 227600,
600509, 601199, 142410, 104311, 193400, 201910, 107300, 122560, 272800, 217000,
590050, 147670, 133170, 176730, 300300, 134370, 274600, 120140, 162151, 158070,
10 152790, 120120, 106100, 300200, 192340, 190160, 138040, 147470, 147620, 173350,
147380, 152200, 152760, 157145, 153450, 264080, 113811, 600937, 600840, 188545,
202110, 600514, 186590, 603372, 136435, 137241, 252800, 214500, 207750, 138850,
139191, 142640, 138130, 189907, 603692, 600633, 603355, 107270, 600377, 147892,
15 232200, 600281, 232800, 602358, 137035, 601771, 601769, 253200, 601933, 118444,
600270, 120700, 600945, 603732, 147660, 600761, 172400, 600823, 600877, 130080,
171060, 107740, 307800, 602843, 130660, 152780, 124020, 601124, 601340, 601604,
601610, 171050, 312060, 232700, 300159, 142703, 600734, 125255, 168450, 123812,
20 188540, 147940, 188450, 600839, 182452, 188400, 182280, 176760, 263200, 600264,
188826, 252650, 601185, 162641, 137216, 601398, 601538, 118888, 118445, 601745,
190180, 601922, 182098, 602008, 147440, 602384, 600031, 109160, 602663, 151670,
602682, 602730, 602779, 146880, 603061, 142704, 603140, 106150, 600732, 153620,
25 603318, 139392, 600042, 102200, 603493, 182100, 264300, 603795, 184600

2) Membrane protein

1017 entries found, searching for "membrane protein"

30 130500, 305360, 153330, 173610, 170995, 109270, 170993, 309060, 120920, 602333,
133740, 133710, 602690, 133730, 159430, 600897, 133090, 601178, 602413, 602003,
109280, 603237, 602173, 107776, 602334, 125305, 602335, 182879, 154045, 309845,
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35 600723, 601114, 185880, 185881, 300096, 602257, 160900, 177070, 603062, 603344,
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40 108733, 107770, 173335, 602625, 154050, 219800, 603850, 601028, 600447, 104225,
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45 602216, 602261, 602262, 602461, 131560, 179514, 179512, 176981, 142461, 139310,
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50 600174, 180069, 191275, 104760, 601693, 300017, 603518, 601009, 134651, 601107,
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55 120070, 600691, 600855, 182309, 602101, 602857, 194355, 162230, 600874, 113730,
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155760, 118990, 135620, 308230, 602694, 162060, 300023, 160993, 153619, 153432,
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5 602654, 603821, 116952, 151430, 602632, 155975, 602217, 150370, 600752, 601179,
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601275, 204200, 602426, 603820, 600551, 600695, 600552, 600553, 602306, 601523,
10 602507, 602299, 600583, 114070, 600632, 603498, 185430, 600587, 235200, 173470,
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15 602469, 600930, 601383, 176261, 602574, 602997, 311770, 131550, 603616, 308700,
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20 113811, 182138, 212138, 601309, 109690, 114760, 176805, 601253, 123900, 602581,
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600135, 186591, 173910, 138140, 107266, 120950, 601081, 603690, 244400, 312700,
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25 603126, 164920, 602934, 164730, 163890, 603434, 107269, 602909, 600877, 256550,
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30 151525, 300200, 165180, 230800, 602158, 602676, 603411, 193245, 120325, 601848,
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35 600185, 601295, 600978, 205400, 603274, 600418, 600839, 516050, 601691, 601007,
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40 600423, 232200, 191305, 231680, 103320, 190180, 600493, 111200, 226200, 312600,
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106180, 112203, 103180, 182530, 182160, 600644, 307030, 192321, 600667, 125647,
179080, 114207, 114860, 176000, 116930, 600748, 173515, 173325, 600377, 171760,
45 171050, 118425, 170260, 191315, 600798, 600821, 600823, 600444, 600840, 159465,
600857, 158380, 600867, 154360, 152427, 150330, 110900, 147840, 147360, 147280,
146880, 312610, 120940, 142871, 142790, 600937, 142600, 134390, 111250, 600979,
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50 122561, 131100, 123610, 217070, 100500, 603377, 602354, 603302, 603207, 603086,
602188, 602095, 603867, 603842, 603798, 602602, 601194, 602607, 603713, 603681,
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603425, 601843, 603263, 603208, 601411, 603201, 603189, 601463, 603164, 603152,
55 603087, 602874, 601492, 602893, 602057, 602859, 602746, 603879, 603510, 602458,
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602184, 602894, 603005, 603030, 603861, 602835, 602136, 600153, 600074, 600046,

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600023, 601625, 516006, 600018, 600016, 516002, 601590, 313475, 313470, 600244,
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300169, 300150, 300132, 601533, 600385, 600464, 600424, 600429, 601756, 601488,
5 516005, 251100, 516004, 600918, 516003, 602192, 516001, 240500, 600465, 602241,
602243, 230200, 601485, 601478, 601416, 602297, 601459, 601839, 602314, 193065,
193001, 191306, 600504, 601020, 191191, 602372, 190181, 600534, 188380, 186854,
186360, 600530, 185250, 182331, 600535, 182305, 601296, 600582, 600732, 600734,
10 600742, 600782, 176802, 176266, 600769, 601883, 600864, 601901, 176260, 173490,
600910, 601905, 171890, 600916, 601987, 602679, 162651, 161555, 160994, 602714,
602715, 602724, 602736, 300007, 602783, 275630, 602836, 270200, 602871, 159460,
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15 152310, 151690, 151625, 602935, 602974, 150325, 602992, 150320, 250790, 603006,
603007, 603008, 150292, 233690, 603046, 150210, 603061, 147940, 603063, 221770,
223100, 603097, 147880, 603118, 147730, 146928, 146630, 142622, 603149, 603150,
603151, 600923, 138981, 138590, 138330, 216950, 603192, 138297, 603202, 601002,
20 602343, 138230, 136131, 603217, 603220, 134660, 131390, 131235, 603242, 603243,
130130, 602345, 126455, 601123, 126064, 125240, 602359, 603312, 602380, 603318,
123890, 123836, 603356, 603361, 603366, 123830, 179610, 188060, 123620, 120980,
186355, 118510, 114835, 114217, 113810, 603499, 182310, 111740, 109610, 603548,
25 603564, 108740, 603598, 603613, 107273, 603626, 602518, 179410, 603647, 602515,
603652, 106195, 602573, 178990, 105210, 104615, 167055, 603717, 104614, 603728,
104210, 603749, 603750, 103850, 602608, 603787, 603788, 603796, 173445, 103220,
102910, 102681, 102670, 102642, 603833, 173391, 102576, 102575, 171833, 102573,
30 101800, 603875, 601108

3) Channel (member of membrane protein)

272 entries found, searching for "channel"

35 176266, 600724, 170500, 182390, 123825, 114208, 114205, 601784, 114206, 600937,
114204, 603415, 600053, 114209, 114207, 600760, 118425, 601011, 192500, 176261,
600761, 176260, 600359, 600228, 600877, 602235, 300008, 182389, 182391, 601328,
601534, 600504, 602323, 601958, 602780, 602781, 601327, 601012, 600734, 603208,
40 182392, 603220, 603219, 603888, 600054, 602232, 601745, 603537, 602604, 603796,
302910, 602866, 601013, 602905, 602906, 600163, 152427, 180901, 600702, 600308,
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193245, 603305, 176258, 602983, 601219, 601141, 176267, 602343, 602726, 138253,
45 176262, 600003, 600397, 602872, 138249, 600843, 600935, 600580, 600845, 602158,
602106, 176264, 300110, 176257, 602717, 603493, 176268, 600932, 602727, 138254,
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600846, 138252, 602982, 603787, 602836, 603788, 602566, 603651, 602421, 100690,
50 107777, 100725, 100710, 600509, 603061, 154275, 304040, 154276, 180902, 121014,
602368, 139311, 601383, 108745, 601313, 601042, 600131, 186360, 600109, 600229,
600170, 603319, 601485, 118503, 180903, 602076, 124030, 601059, 601212, 601218,
147450, 600855, 600919, 601154, 601157, 171060, 600968, 182139, 131230, 121015,
55 600421, 113730, 249210, 310500, 600637, 125950, 118800, 156490, 602974, 104610,
121011, 602522, 118504, 300041, 160900, 601382, 602103, 600465, 602014, 600442,
601109, 602481, 277900, 254210, 138247, 164920, 170280, 171050, 128100, 173910,

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600884, 123885, 602887, 600232, 180297, 137192, 600304, 138251, 603053, 300103,
603152, 603199, 118511, 118508, 138079, 600983, 182307, 603324, 305990, 603418,
114080, 232200, 600046, 600040, 602403, 603750, 603785, 104210, 600019, 600300,
5 182860, 603852, 603853, 603855, 516060

4) Extracellular matrix

167 entries found, searching for "extracellular matrix"

10 603479, 602201, 601418, 601548, 154870, 115437, 602285, 602262, 602261, 134797,
600754, 120361, 116935, 602263, 603320, 601807, 603321, 185250, 185261, 253700,
128239, 120324, 193300, 276901, 308700, 600514, 600261, 602109, 120140, 120150,
147557, 193400, 600536, 188826, 120180, 118661, 120320, 152200, 135821, 112260,
15 230740, 602090, 155760, 192975, 190182, 602108, 601463, 186745, 600900, 600985,
600758, 602369, 179590, 601211, 600065, 602178, 600262, 182888, 182889, 151510,
182120, 150325, 190181, 150370, 186355, 193065, 165070, 154705, 147559, 146650,
146640, 153619, 175100, 187380, 231050, 188060, 135820, 156790, 130660, 301870,
20 128240, 600076, 600119, 193210, 600215, 600245, 121010, 150240, 600309, 600491,
222600, 120328, 600564, 600596, 600616, 600700, 600742, 120325, 138297, 600930,
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120250, 601587, 601636, 601652, 601692, 601728, 120220, 601915, 602048, 155120,
25 310300, 120210, 120165, 120120, 118940, 116930, 602264, 116806, 602366, 120470,
602415, 602428, 602453, 602505, 602574, 603005, 603196, 603221, 603319, 107269,
216550, 103320, 603489, 603551, 603767, 603799, 603842

30

There are several methods for analyzing the expression levels of genes associated with diseases. Differences in gene expression levels between diseased and normal tissues are studied by the analytical methods, for example, Northern hybridization and differential display.
35 Other examples include a method with high-density cDNA filter, a method with DNA microarray and methods with PCR amplification (Experimental Medicine, Vol.17, No. 8, 980-1056 (1999); Cell Engineering (additional volume) DNA Microarray and Advanced PCR Methods, Muramatsu & Naba (eds.), Shujunsa). The varying levels of gene expression between diseased tissues and
40 normal tissues can be studied by any of these analytical methods. When explicit difference in the expression level is observed for a gene, it can be concluded that the gene is closely associated with a disease or disorder. Instead of diseased tissues, cultured cells can be used for the assessment. Similarly, when gene expression is explicitly different between normal cells
45 and cells reproducing disease-associated specific features, it can be concluded that the gene is closely associated with a disease or disorder. When the expression levels of genes are evidently varied during major cellular events (such as differentiation and apoptosis), the genes are involved in the cellular events and accordingly are candidates for disease- and/or disorder-
50 associated genes. Further, genes exhibiting tissue-specific expression are genes playing important parts in the tissue functions and, therefore, can be candidates for genes associated with diseases and/or disorders affecting the tissues.

For example, non-enzymic protein glycation reaction is believed to be a cause for a variety
55 of chronic diabetic complications. Accordingly, genes of which expression levels are elevated or decreased in a glycated protein-dependent manner in the endothelial cells, are associated with diabetic complications caused by glycated proteins (Diabetes 1996, 45 (Suppl. 3), S67-S72;

Diabetes, 1997, 46 (Suppl. 2), S19-S25).

The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- α participates in the onset (Current opinion in immunology 1999, 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis. Many genes acting at the downstream of TNF- α and IL-1 β among inflammation-associated cytokines have been previously identified. The respective stimulations are transduced through independent pathways of signaling cascade. There exists another signaling cascade for both stimulations, wherein NF- κ B is a common transducing molecule shared by the two stimulations (J. Leukoc. Biol., 1994, 56(5): 542-547). It has also been revealed that many inflammation-associated genes, including IL-2, IL-6 and G-CSF, are varied in the expression levels thereof in response to the signal through the common pathway (Trend Genet. 1999, 15(6): 229-235). It is assumed that genes of which expression levels are varied in response to the stimulation of TNF- α or IL-1 β also participate in inflammation.

Ultraviolet radiation damage has been recognized as a risk factor for skin cancers, etc. (United States Environmental Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with ultraviolet radiation damage of skin. In addition, genes associated with neural differentiation can be candidates for genes responsible for neurological diseases as well as candidates for genes usable for treating the diseases.

Clones exhibiting differences in the expression levels thereof can be selected by using gene expression analysis. The selection comprises, for example; analyzing cDNA clones by using high-density cDNA filter; and statistically treating the multiple signal values (signal values of radioisotope in the labeled probes or values obtained by measuring fluorescence intensities emitted from the fluorescent labels) for the respective clones by two-sample t-test, where the signal values are determined by multiple experiments of hybridization. The clones of interest are selectable based on the statistically significant differences in the signal distribution at $p < 0.05$. However, selectable clones with significant difference in the expression levels thereof may be changed depending on the partial modification of statistical treatment. For example, the clones may be selected by conducting statistical treatment with two-sample t-test at $p < 0.01$; or genes exhibiting more explicit differences in the expression levels thereof can be selected by performing statistical treatment with a pre-determined cut-off value for the significant signal difference. An alternative method is that the expression levels are simply compared with each other, and then, the clones of interest are selected based on the ratio of the expression levels thereof.

Clones that vary in their expression levels can also be selected by comparing the expression levels by PCR analysis, for example, by using the method of determining the band intensities representing the amounts of PCR products with ethidium bromide staining; the method of determining the values of radioisotope signals or fluorescence intensities of the PCR products when radiolabeled or fluorescent dye-labeled primers, respectively, are used in PCR amplification; or the method of determining the values of radioisotope signals or

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fluorescence intensities of the probes hybridized to the PCR products when radiolabeled or fluorescent dye-labeled probes, respectively, are used in the hybridization. If the expression level ratios obtained in multiple PCR experiments are constantly at least 2-fold, such a clone can be judged to vary in its expression level. When the ratios are several-fold or not less than 10-fold, the clone can be selected as a gene exhibiting the explicit difference in its expression level.

A survey of genes of which expression levels are varied specifically to the glyated protein in the endothelial cells has revealed genes with elevated expression levels, HEMBA1003958, HEMBA1004850, MAMMA1001256, MAMMA1002132, PLACE2000411 and PLACE3000119. On the other hand, a gene of which expression level is decreased specifically to the glyated protein is MAMMA1001783. These clones are genes associated with diabetes.

A survey of genes of which expression levels are varied in response to TNF- α (Tumor Necrosis Factor-alpha) in the primary cell culture of synovial tissue has revealed the following clones with elevated expression levels in the presence of TNF- α :

	HEMBA1000005,	HEMBA1000012,	HEMBA1000020,	HEMBA1000046,	HEMBA1000076,
20	HEMBA1000111,	HEMBA1000168,	HEMBA1000185,	HEMBA1000201,	HEMBA1000231,
	HEMBA1000243,	HEMBA1000280,	HEMBA1000282,	HEMBA1000304,	HEMBA1000307,
	HEMBA1000327,	HEMBA1000356,	HEMBA1000376,	HEMBA1000387,	HEMBA1000390,
	HEMBA1000418,	HEMBA1000460,	HEMBA1000491,	HEMBA1000501,	HEMBA1000518,
25	HEMBA1000519,	HEMBA1000520,	HEMBA1000531,	HEMBA1000534,	HEMBA1000542,
	HEMBA1000545,	HEMBA1000591,	HEMBA1000592,	HEMBA1000594,	HEMBA1000636,
	HEMBA1000655,	HEMBA1000657,	HEMBA1000673,	HEMBA1000682,	HEMBA1000686,
	HEMBA1000722,	HEMBA1000726,	HEMBA1000827,	HEMBA1000870,	HEMBA1000918,
30	HEMBA1000971,	HEMBA1000974,	HEMBA1000986,	HEMBA1001019,	HEMBA1001043,
	HEMBA1001051,	HEMBA1001059,	HEMBA1001060,	HEMBA1001071,	HEMBA1001080,
	HEMBA1001109,	HEMBA1001140,	HEMBA1001172,	HEMBA1001196,	HEMBA1001213,
	HEMBA1001226,	HEMBA1001281,	HEMBA1001299,	HEMBA1001302,	HEMBA1001303,
35	HEMBA1001323,	HEMBA1001326,	HEMBA1001327,	HEMBA1001330,	HEMBA1001351,
	HEMBA1001407,	HEMBA1001411,	HEMBA1001446,	HEMBA1001454,	HEMBA1001569,
	HEMBA1001647,	HEMBA1001714,	HEMBA1001800,	HEMBA1001804,	HEMBA1001809,
	HEMBA1001888,	HEMBA1001912,	HEMBA1001921,	HEMBA1001967,	HEMBA1002084,
40	HEMBA1002161,	HEMBA1002166,	HEMBA1002241,	HEMBA1002337,	HEMBA1002363,
	HEMBA1002389,	HEMBA1002458,	HEMBA1002460,	HEMBA1002469,	HEMBA1002538,
	HEMBA1002542,	HEMBA1002547,	HEMBA1002609,	HEMBA1002624,	
	HEMBA1002659,	HEMBA1002750,	HEMBA1002770,	HEMBA1002779,	HEMBA1002810,
45	HEMBA1002816,	HEMBA1002818,	HEMBA1002850,	HEMBA1002863,	HEMBA1003021,
	HEMBA1003033,	HEMBA1003078,	HEMBA1003166,	HEMBA1003202,	HEMBA1003204,
	HEMBA1003229,	HEMBA1003235,	HEMBA1003276,	HEMBA1003286,	HEMBA1003296,
	HEMBA1003370,	HEMBA1003376,	HEMBA1003403,	HEMBA1003418,	HEMBA1003433,
50	HEMBA1003447,	HEMBA1003560,	HEMBA1003569,	HEMBA1003571,	HEMBA1003591,
	HEMBA1003597,	HEMBA1003598,	HEMBA1003621,	HEMBA1003656,	HEMBA1003662,
	HEMBA1003680,	HEMBA1003715,	HEMBA1003725,	HEMBA1003729,	HEMBA1003733,
	HEMBA1003742,	HEMBA1003773,	HEMBA1003783,	HEMBA1003950,	HEMBA1004012,
55	HEMBA1004015,	HEMBA1004048,	HEMBA1004074,	HEMBA1004086,	HEMBA1004111,
	HEMBA1004131,	HEMBA1004202,	HEMBA1004203,	HEMBA1004207,	HEMBA1004248,

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	HEMBA1004274,	HEMBA1004321,	HEMBA1004330,	HEMBA1004356,	HEMBA1004366,
	HEMBA1004405,	HEMBA1004408,	HEMBA1004429,	HEMBA1004499,	HEMBA1004507,
	HEMBA1004509,	HEMBA1004542,	HEMBA1004596,	HEMBA1004604,	HEMBA1004776,
5	HEMBA1004889,	HEMBA1004934,	HEMBA1004978,	HEMBA1005019,	HEMBA1005047,
	HEMBA1005206,	HEMBA1005219,	HEMBA1005274,	HEMBA1005331,	HEMBA1005338,
	HEMBA1005394,	HEMBA1005423,	HEMBA1005576,	HEMBA1005732,	
	HEMBA1005746,	HEMBA1006091,	HEMBA1006142,	HEMBA1006173,	HEMBA1006198,
10	HEMBA1006253,	HEMBA1006268,	HEMBA1006309,	HEMBA1006377,	HEMBA1006474,
	HEMBA1006486,	HEMBA1006492,	HEMBA1006502,	HEMBA1006535,	HEMBA1006579,
	HEMBA1006648,	HEMBA1006659,	HEMBA1006885,	HEMBA1006929,	HEMBA1006941,
	HEMBA1007078,	HEMBA1007080,	HEMBA1007121,	HEMBA1007194,	HEMBA1007300,
15	HEMBA1007301,	HEMBA1007322,	HEMBA1000036,	HEMBA1000044,	HEMBA1000089,
	HEMBA1000215,	HEMBA1000217,	HEMBA1000272,	HEMBA1000420,	HEMBA1000591,
	HEMBA1000593,	HEMBA1000631,	HEMBA1000835,	HEMBA1000887,	HEMBA1000908,
	HEMBA1000975,	HEMBA1000985,	HEMBA1001011,	HEMBA1001014,	HEMBA1001112,
20	HEMBA1001133,	HEMBA1001331,	HEMBA1001337,	HEMBA1001366,	HEMBA1001367,
	HEMBA1001384,	HEMBA1001394,	HEMBA1001429,	HEMBA1001463,	HEMBA1001619,
	HEMBA1001684,	HEMBA1001706,	HEMBA1001753,	HEMBA1001797,	HEMBA1001802,
	HEMBA1001812,	HEMBA1001874,	HEMBA1001910,	HEMBA1001915,	HEMBA1001973,
25	HEMBA1001983,	HEMBA1001990,	HEMBA1002190,	HEMBA1002193,	HEMBA1002249,
	HEMBA1002329,	HEMBA1002342,	HEMBA1002371,	HEMBA1002409,	HEMBA1002442,
	HEMBA1002489,	HEMBA1002492,	HEMBA1002520,	HEMBA1002534,	HEMBA1002596,
	HEMBA1002664,	HEMBA1002692,	HEMBA1002697,	HEMBA1002705,	MAMMA1000092,
30	MAMMA1000155,	MAMMA1000163,	MAMMA1000173,	MAMMA1000175,	MAMMA1000227,
	MAMMA1000241,	MAMMA1000257,	MAMMA1000264,	MAMMA1000266,	MAMMA1000270,
	MAMMA1000307,	MAMMA1000410,	MAMMA1000413,	MAMMA1000416,	MAMMA1000421,
	MAMMA1000472,	MAMMA1000501,	MAMMA1000605,	MAMMA1000643,	MAMMA1000670,
35	MAMMA1000684,	MAMMA1000696,	MAMMA1000732,	MAMMA1000752,	MAMMA1000802,
	MAMMA1000824,	MAMMA1000905,	MAMMA1000921,	MAMMA1000931,	MAMMA1000957,
	MAMMA1000962,				
	MAMMA1000998,	MAMMA1001008,	MAMMA1001050,	MAMMA1001074,	MAMMA1001078,
40	MAMMA1001292,	MAMMA1001397,	MAMMA1001476,	MAMMA1001743,	MAMMA1001744,
	MAMMA1001754,	MAMMA1001760,	MAMMA1001785,	MAMMA1001858,	MAMMA1001908,
	MAMMA1002236,	MAMMA1002267,	MAMMA1002292,	MAMMA1002311,	MAMMA1002322,
	MAMMA1002359,	MAMMA1002362,	MAMMA1002485,	MAMMA1002494,	MAMMA1002597,
45	MAMMA1002598,	MAMMA1002665,	MAMMA1002671,	MAMMA1002684,	MAMMA1002748,
	MAMMA1002775,	MAMMA1002830,	MAMMA1002858,	MAMMA1002868,	MAMMA1002886,
	MAMMA1002887,	MAMMA1002892,	MAMMA1002909,	MAMMA1002937,	MAMMA1002947,
	MAMMA1002964,	MAMMA1002970,	MAMMA1003013,	MAMMA1003150,	NT2RM1000039,
50	NT2RM1000062,	NT2RM1000080,	NT2RM1000086,	NT2RM1000127,	NT2RM1000132,
	NT2RM1000187,	NT2RM1000199,	NT2RM1000244,	NT2RM1000256,	NT2RM1000272,
	NT2RM1000318,	NT2RM1000354,	NT2RM1000377,	NT2RM1000430,	NT2RM1000499,
	NT2RM1000539,	NT2RM1000553,	NT2RM1000563,	NT2RM1000699,	NT2RM1000742,
55	NT2RM1000826,	NT2RM1000829,	NT2RM1000833,	NT2RM1000882,	NT2RM1000898,
	NT2RM1000905,	NT2RM1001092,	NT2RM2000013,	NT2RM2000032,	NT2RM2000042,
	NT2RM2000101,	NT2RM2000124,	NT2RM2000192,	NT2RM2000259,	NT2RM2000260,

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	NT2RM2000363,	NT2RM2000368,	NT2RM2000402,	NT2RM2000452,	NT2RM2000952,
	NT2RM2001221,	NT2RM2002014,	NT2RM2002030,	NT2RM4000156,	NT2RM4000349,
	NT2RM4000395,	NT2RM4000457,	NT2RM4000511,	NT2RM4000514,	NT2RM4000698,
5	NT2RM4000764,	NT2RM4001016,	NT2RM4001084,	NT2RM4001594,	NT2RM4001629,
	NT2RM4001662,	NT2RM4001841,	NT2RM4002093,	NT2RM4002109,	NT2RM4002145,
	NT2RM4002189,	NT2RM4002194,	NT2RM4002226,	NT2RP1000170,	NT2RP1000439,
	NT2RP1000478,	NT2RP1000513,	NT2RP1000701,	NT2RP1000856,	NT2RP1001361,
10	NT2RP2000097,	NT2RP2000239,	NT2RP2000288,	NT2RP2000328,	
	NT2RP2000329,	NT2RP2000369,	NT2RP2000422,	NT2RP2000842,	NT2RP2000965,
	NT2RP2001245,	NT2RP2001440,	NT2RP2001560,	NT2RP2001634,	NT2RP2001663,
	NT2RP2001677,	NT2RP2001762,	NT2RP2002270,	NT2RP2002312,	NT2RP2002316,
15	NT2RP2002333,	NT2RP2002706,	NT2RP2002925,	NT2RP2002959,	NT2RP2002987,
	NT2RP2003125,	NT2RP2003137,	NT2RP2003237,	NT2RP2003272,	NT2RP2003596,
	NT2RP2003604,	NT2RP2003643,	NT2RP2003968,	NT2RP2003976,	NT2RP2004194,
	NT2RP2004321,	NT2RP2005037,	NT2RP2005140,	NT2RP2005204,	NT2RP2005293,
20	NT2RP2005457,	NT2RP2005555,	NT2RP2005600,	NT2RP2005701,	NT2RP2005719,
	NT2RP2005722,	NT2RP2005773,	NT2RP2005890,	NT2RP2006023,	NT2RP2006071,
	NT2RP3000186,	NT2RP3000341,	NT2RP3000599,	NT2RP3000632,	NT2RP3000644,
	NT2RP3000852,	NT2RP3000968,	NT2RP3001096,	NT2RP3001109,	NT2RP3001126,
25	NT2RP3001147,	NT2RP3001449,	NT2RP3001529,	NT2RP3001753,	NT2RP3001854,
	NT2RP3001915,	NT2RP3001969,	NT2RP3002081,	NT2RP3002142,	NT2RP3002399,
	NT2RP3002590,	NT2RP3002603,	NT2RP3002810,	NT2RP3002876,	NT2RP3003311,
	NT2RP3003330,	NT2RP3003672,	NT2RP3004209,	NT2RP3004378,	NT2RP4000078,
30	NT2RP4000541,	NT2RP4000588,	NT2RP4001219,	NT2RP4001228,	NT2RP4001276,
	NT2RP4001507,	NT2RP4002047,	NT2RP5003459,	NT2RP5003492,	OVARC1000085,
	OVARC1000087,	OVARC1000106,	OVARC1000151,	OVARC1000198,	OVARC1000431,
	OVARC1000440,	OVARC1000564,	OVARC1000605,	OVARC1000679,	OVARC1000883,
35	OVARC1000912,	OVARC1000960,	OVARC1000971,	OVARC1001038,	OVARC1001055,
	OVARC1001085,	OVARC1001129,	OVARC1001167,	OVARC1001339,	OVARC1001425,
	OVARC1001745,	OVARC1001762,	OVARC1001766,	OVARC1001942,	OVARC1002044,
	OVARC1002138,	PLACE1000004,	PLACE1000005,	PLACE1000420,	PLACE1000547,
40	PLACE1000562,	PLACE1000653,	PLACE1001168,	PLACE1001311,	PLACE1001377,
	PLACE1001920,	PLACE1001983,	PLACE1002066,	PLACE1002072,	PLACE1002140,
	PLACE1002171,	PLACE1002319,	PLACE1002474,	PLACE1002499,	PLACE1002532,
	PLACE1002665,	PLACE1003025,	PLACE1003145,	PLACE1003361,	PLACE1003605,
45	PLACE1003704,	PLACE1003783,	PLACE1003885,	PLACE1004405,	PLACE1004629,
	PLACE1004686,	PLACE1004930,	PLACE1005066,	PLACE1005077,	PLACE1005630,
	PLACE1005876,	PLACE1006143,	PLACE1006325,	PLACE1006488,	PLACE1006805,
	PLACE1006829,	PLACE1007286,	PLACE1007858,	PLACE1008201,	PLACE1009045,
50	PLACE1009113,	PLACE1009621,	PLACE1010106,	PLACE1010310,	PLACE1010622,
	PLACE1010944,	PLACE1010965,	PLACE1011185,	PLACE1011332,	PLACE1011635,
	PLACE1011646,	PLACE1011725,	PLACE2000014,	PLACE2000264,	PLACE2000394,
	PLACE2000419,	PLACE3000160,	PLACE3000220,	PLACE3000254,	PLACE3000271,
55	PLACE3000339,	PLACE3000341,	PLACE3000350,	PLACE3000353,	PLACE3000401,
	PLACE4000300,	SKNMC1000091,	THYRO1000855,	THYRO1001559,	Y79AA1000065,
	Y79AA1000202,	Y79AA1000214,	Y79AA1000346,	Y79AA1000784,	Y79AA1000833,

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Y79AA1000968, Y79AA1001555, Y79AA1002220

On the other hand, clones with decreased expression levels in the presence of TNF α are:

5 HEMBA1002150, HEMBB1000240, NT2RM2000469, NT2RM2000984, NT2RM2001688,
NT2RM4000290, NT2RM4000496, NT2RM4000590, NT2RM4001047, NT2RM4001582,
NT2RM4001611, NT2RM4001650, NT2RM4002075, NT2RM4002128, NT2RP1000174,
NT2RP1000243, NT2RP1000581, NT2RP1000688, NT2RP1000767, NT2RP1000825,
NT2RP1001185, NT2RP1001286, NT2RP1001432, NT2RP1001457, NT2RP2000001,
10 NT2RP2000248, NT2RP2000841, NT2RP2001813, NT2RP2002137, NT2RP2002928,
NT2RP2003517, NT2RP2003559, NT2RP2003564, NT2RP2004933, NT2RP2005038,
NT2RP2006365, NT2RP3000072, NT2RP3000320, NT2RP3000484, NT2RP3000980,
NT2RP3001111, NT2RP3001420, NT2RP3001495, NT2RP3002056, NT2RP3002057,
15 NT2RP3002545, NT2RP3002713, NT2RP3002799, NT2RP3002869, NT2RP3002953,
NT2RP3002955, NT2RP3003282, NT2RP3003290, NT2RP3003384,
NT2RP3003385, NT2RP3003870, NT2RP3004207, NT2RP3004262, NT2RP3004527,
NT2RP4000500, NT2RP4000524, NT2RP4000787, NT2RP4000927, NT2RP4000955,
20 NT2RP4000989, NT2RP4001442, NT2RP4001638, NT2RP4001950, NT2RP4002888,
NT2RP5003524, OVARC1001270, PLACE1000246, PLACE1002816.

These are rheumatoid arthritis-associated clones.

25 A survey of genes of which expression levels are varied in primary cultured skin fibroblast
cells exposed to ultraviolet light has revealed the following clones with elevated expression
levels by ultraviolet radiation: HEMBA1000542, HEMBA1001808, HEMBA1002177,
HEMBA1003314, MAMMA1001874, NT2RM2001100, NT2RP2005732, NT2RP3000592,
NT2RP4000657, OVARC 1000004, OVARC1001092, OVARC1001342, PLACE1002816,
30 NT2RM4001002, NT2RM4001813, NT2RM4002266, NT2RP2001174, NT2RP2001196,
NT2RP2005358, NT2RP3000690, NT2RP3001216, NT2RP3003464, PLACE1006382,
THYRO1000070, THYRO1001100, Y79AA1000342

35 On the other hand, the expression levels of the following clones were decreased by
ultraviolet radiation:

40 HEMBA1000005, HEMBA1000150, HEMBA1000156, HEMBA1000158, HEMBA1000168,
HEMBA1000231, HEMBA1000304, HEMBA1000307, HEMBA1000333, HEMBA1000366,
HEMBA1000369, HEMBA1000390, HEMBA1000396, HEMBA1000418, HEMBA1000434,
HEMBA1000464, HEMBA1000469, HEMBA1000490, HEMBA1000504, HEMBA1000505,
HEMBA1000557, HEMBA1000657, HEMBA1000673, HEMBA1000682, HEMBA1000686,
HEMBA1000727, HEMBA1000752, HEMBA1000851, HEMBA1000852, HEMBA1000870,
HEMBA1000872, HEMBA1001085, HEMBA1001121, HEMBA1001133, HEMBA1001235,
45 HEMBA1001265, HEMBA1001281, HEMBA1001289, HEMBA1001299, HEMBA1001303,
HEMBA1001310, HEMBA1001323, HEMBA1001595, HEMBA1001620, HEMBA1001640,
HEMBA1001678, HEMBA1001712, HEMBA1001835, HEMBA1001950, HEMBA1001987,
HEMBA1002253, HEMBA1002321, HEMBA1002341, HEMBA1002419, HEMBA1002679,
50 HEMBA1002728, HEMBA1002818, HEMBA1002935, HEMBA1002999, HEMBA1003034,
HEMBA1003071, HEMBA1003098, HEMBA1003142, HEMBA1003175, HEMBA1003202,
HEMBA1003212, HEMBA1003220, HEMBA1003276, HEMBA1003373, HEMBA1003417,
HEMBA1003447, HEMBA1003528, HEMBA1003684, HEMBA1003799, HEMBA1003885,
55 HEMBA1003989, HEMBA1004011, HEMBA1004055, HEMBA1004133, HEMBA1004225,
HEMBA1004272, HEMBA1004353, HEMBA1004631, HEMBA1004669, HEMBA1004705,

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	HEMBA1004753,	HEMBA1004776,	HEMBA1004803,	HEMBA1004816,	HEMBA1004900,
	HEMBA1005047,	HEMBA1005079,	HEMBA1005101,	HEMBA1005149,	HEMBA1005152,
	HEMBA1005202,	HEMBA1005314,	HEMBA1005372,	HEMBA1005511,	HEMBA1005513,
5	HEMBA1005518,	HEMBA1005570,	HEMBA1005577,	HEMBA1005581,	HEMBA1005588,
	HEMBA1005609,	HEMBA1005632,	HEMBA1005853,	HEMBA1006031,	HEMBA1006035,
	HEMBA1006485,	HEMBA1006486,	HEMBA1006502,	HEMBA1006696,	HEMBA1006789,
	HEMBA1006796,	HEMBA1007085,	HEMBA1007224,	HEMBA1007301,	HEMBA1007319,
10	HEMBA1007341,	HEMBA1007342,	HEMBB1000036,	HEMBB1000037,	HEMBB1000217,
	HEMBB1000266,	HEMBB1000317,	HEMBB1000336,	HEMBB1000354,	HEMBB1000369,
	HEMBB1000399,	HEMBB1000434,	HEMBB1000438,	HEMBB1000592,	HEMBB1000673,
	HEMBB1000789,	HEMBB1000810,	HEMBB1000883,	HEMBB1000887,	HEMBB1001105,
15	HEMBB1001182,	HEMBB1001242,	HEMBB1001267,	HEMBB1001424,	HEMBB1001464,
	HEMBB1001531,	HEMBB1001618,	HEMBB1001996,	HEMBB1002092,	HEMBB1002139,
	HEMBB1002142,	HEMBB1002190,	HEMBB1002453,	HEMBB1002520,	HEMBB1002550,
	HEMBB1002556,	HEMBB1002600,	HEMBB1002664,	MAMMA1000009,	MAMMA1000055,
20	MAMMA1000069,	MAMMA1000133,	MAMMA1000171,	MAMMA1000173,	MAMMA1000287,
	MAMMA1000416,	MAMMA1000585,	MAMMA1000713,	MAMMA1000760,	MAMMA1000798,
	MAMMA1000831,	MAMMA1000875,	MAMMA1000876,	MAMMA1000877,	MAMMA1000906,
	MAMMA1000931,	MAMMA1000962,	MAMMA1001133,	MAMMA1001139,	MAMMA1001243,
25	MAMMA1001271,	MAMMA1001274,	MAMMA1001298,	MAMMA1001606,	MAMMA1001630,
	MAMMA1001670,	MAMMA1001743,	MAMMA1001751,	MAMMA1002140,	MAMMA1002145,
	MAMMA1002158,	MAMMA1002170,	MAMMA1002236,	MAMMA1002311,	MAMMA1002498,
	MAMMA1002754,	MAMMA1002780,	MAMMA1002820,	MAMMA1002843,	MAMMA1002844,
30	MAMMA1002871,	MAMMA1003047,	NT2RM1000037,	NT2RM1000039,	NT2RM1000080,
	NT2RM1000086,	NT2RM1000341,	NT2RM1000499,	NT2RM1000669,	NT2RM1000746,
	NT2RM1000781,	NT2RM1000885,	NT2RM1000905,	NT2RM1000962,	NT2RM2000239,
	NT2RM2000260,	NT2RM2000371,	NT2RM2000639,	NT2RM2000649,	NT2RM2000735,
35	NT2RM2000821,	NT2RM2000984,	NT2RM2001035,	NT2RM2001065,	NT2RM2001105,
	NT2RM2001177,	NT2RM2001194,	NT2RM2001196,	NT2RM2001243,	NT2RM2001256,
	NT2RM2001424,	NT2RM2001588,	NT2RM2001635,	NT2RM2001648,	NT2RM2001652,
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	PLACE1009158,	PLACE1009172,	PLACE1009190,	PLACE1009230,	PLACE1009319,
50	PLACE1009338,	PLACE1009375,	PLACE1009434,	PLACE1009613,	PLACE1009637,
	PLACE1009659,	PLACE1009763,	PLACE1009845,	PLACE1009921,	PLACE1009971,
	PLACE1009992,	PLACE1010023,	PLACE1010053,	PLACE1010069,	PLACE1010074,
	PLACE1010181,	PLACE1010202,	PLACE1010231,	PLACE1010270,	PLACE1010274,
55	PLACE1010321,	PLACE1010329,	PLACE1010492,	PLACE1010522,	PLACE1010616,
	PLACE1010624,	PLACE1010631,	PLACE1010786,	PLACE1011032,	PLACE1011114,
	PLACE1011221,	PLACE1011325,	PLACE1011520,	PLACE1011635,	PLACE1011649,

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	PLACE1011682,	PLACE1011875,	PLACE1011896,	PLACE1011964,	PLACE1012031,
	PLACE2000015,	PLACE2000021,	PLACE2000047,	PLACE2000072,	PLACE2000097,
	PLACE2000136,	PLACE2000246,	PLACE2000302,	PLACE2000379,	PLACE2000394,
5	PLACE2000425,	PLACE2000427,	PLACE2000477,	PLACE3000009,	PLACE3000070,
	PLACE3000142,	PLACE3000145,	PLACE3000148,	PLACE3000155,	PLACE3000169,
	PLACE3000208,	PLACE3000230,	PLACE3000322,	PLACE3000331,	PLACE3000352,
	PLACE3000401,	PLACE3000413,	PLACE3000425,	PLACE3000477,	PLACE4000009,
10	PLACE4000049,	PLACE4000089,	PLACE4000100,	PLACE4000247,	PLACE4000250,
	PLACE4000252,	PLACE4000300,	PLACE4000344,	PLACE4000367,	PLACE4000465,
	PLACE4000489,	PLACE4000638,	SKNMC1000013,	THYRO1000017,	THYRO1000026,
	THYRO1000034,	THYRO1000072,	THYRO1000132,	THYRO1000173,	THYRO1000190,
15	THYRO1000197,	THYRO1000221,	THYRO1000253,	THYRO1000270,	THYRO1000279,
	THYRO1000327,	THYRO1000394,	THYRO1000438,	THYRO1000558,	THYRO1000569,
	THYRO1000585,	THYRO1000596,	THYRO1000625,	THYRO1000637,	THYRO1000676,
	THYRO1000734,	THYRO1000777,	THYRO1000783,	THYRO1000805,	THYRO1000843,
20	THYRO1000934,	THYRO1001033,	THYRO1001347,	THYRO1001405,	THYRO1001411,
	THYRO1001534,	THYRO1001573,	THYRO1001584,	THYRO1001602,	THYRO1001605,
	THYRO1001772,	THYRO1001854,	VESEN1000122,	Y79AA1000037,	Y79AA1000065,
	Y79AA1000181,	Y79AA1000231,	Y79AA1000349,	Y79AA1000355,	Y79AA1000368,
25	Y79AA1000538,	Y79AA1000782,	Y79AA1001023,	Y79AA1001145,	Y79AA1001391,
	Y79AA1001541,	Y79AA1001585,	Y79AA1001705,	Y79AA1001781,	Y79AA1001923,
	Y79AA1001963,	Y79AA1002125,	Y79AA1002229,	Y79AA1002407,	Y79AA1002487

These clones are associated with ultraviolet radiation damage.

30 A survey of genes of which expression levels are varied in response to the stimulation for inducing cell differentiation (stimulation using retinoic acid (RA) or using RA/inhibitor (inhibitor for cell division)) in culture cells of neural strain, NT2, revealed the following clones with elevated expression levels in the presence of RA:

35	HEMBA1000005,	HEMBA1000042,	HEMBA1000046,	HEMBA1000076,	HEMBA1000111,
	HEMBA1000141,	HEMBA1000150,	HEMBA1000185,	HEMBA1000282,	HEMBA1000304,
	HEMBA1000307,	HEMBA1000338,	HEMBA1000357,	HEMBA1000376,	HEMBA1000387,
	HEMBA1000392,	HEMBA1000428,	HEMBA1000456,	HEMBA1000459,	HEMBA1000469,
40	HEMBA1000504,	HEMBA1000508,	HEMBA1000519,	HEMBA1000540,	HEMBA1000545,
	HEMBA1000557,	HEMBA1000563,	HEMBA1000568,	HEMBA1000575,	HEMBA1000588,
	HEMBA1000592,	HEMBA1000604,	HEMBA1000622,	HEMBA1000655,	HEMBA1000673,
	HEMBA1000682,	HEMBA1000726,	HEMBA1000727,	HEMBA1000749,	HEMBA1000769,
45	HEMBA1000774,	HEMBA1000791,	HEMBA1000822,	HEMBA1000872,	HEMBA1000876,
	HEMBA1000910,	HEMBA1000942,	HEMBA1000943,	HEMBA1000960,	HEMBA1000972,
	HEMBA1000974,	HEMBA1000991,	HEMBA1001008,	HEMBA1001020,	HEMBA1001043,
	HEMBA1001051,	HEMBA1001060,	HEMBA1001071,	HEMBA1001077,	HEMBA1001085,
50	HEMBA1001094,	HEMBA1001109,	HEMBA1001121,	HEMBA1001122,	HEMBA1001140,
	HEMBA1001172,	HEMBA1001226,	HEMBA1001235,	HEMBA1001265,	HEMBA1001281,
	HEMBA1001294,	HEMBA1001299,	HEMBA1001319,	HEMBA1001323,	HEMBA1001330,
	HEMBA1001351,	HEMBA1001361,	HEMBA1001377,	HEMBA1001388,	HEMBA1001391,
55	HEMBA1001398,	HEMBA1001432,	HEMBA1001435,	HEMBA1001442,	HEMBA1001454,
	HEMBA1001455,	HEMBA1001497,	HEMBA1001517,	HEMBA1001569,	HEMBA1001570,

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	HEMBA1001581,	HEMBA1001585,	HEMBA1001620,	HEMBA1001711,	HEMBA1001718,
	HEMBA1001723,	HEMBA1001761,	HEMBA1001815,	HEMBA1001819,	HEMBA1001861,
	HEMBA1001864,	HEMBA1001869,	HEMBA1001888,	HEMBA1001915,	HEMBA1001918,
5	HEMBA1001940,	HEMBA1001964,	HEMBA1001967,	HEMBA1001979,	HEMBA1001987,
	HEMBA1001991,	HEMBA1002008,	HEMBA1002022,	HEMBA1002039,	HEMBA1002049,
	HEMBA1002084,	HEMBA1002102,	HEMBA1002113,	HEMBA1002144,	HEMBA1002160,
	HEMBA1002162,	HEMBA1002185,	HEMBA1002212,	HEMBA1002226,	HEMBA1002229,
10	HEMBA1002267,	HEMBA1002270,	HEMBA1002337,	HEMBA1002381,	HEMBA1002458,
	HEMBA1002477,	HEMBA1002508,	HEMBA1002558,	HEMBA1002561,	HEMBA1002583,
	HEMBA1002590,	HEMBA1002628,	HEMBA1002645,	HEMBA1002661,	HEMBA1002678,
	HEMBA1002712,	HEMBA1002728,	HEMBA1002780,	HEMBA1002850,	HEMBA1002886,
15	HEMBA1002934,	HEMBA1002935,	HEMBA1002939,	HEMBA1002951,	HEMBA1002968,
	HEMBA1002970,	HEMBA1002973,	HEMBA1002999,	HEMBA1003021,	HEMBA1003033,
	HEMBA1003034,	HEMBA1003064,	HEMBA1003067,	HEMBA1003078,	HEMBA1003086,
	HEMBA1003096,	HEMBA1003129,	HEMBA1003142,	HEMBA1003148,	HEMBA1003166,
20	HEMBA1003175,	HEMBA1003197,	HEMBA1003199,	HEMBA1003202,	HEMBA1003204,
	HEMBA1003212,	HEMBA1003235,	HEMBA1003250,	HEMBA1003273,	HEMBA1003276,
	HEMBA1003278,	HEMBA1003291,	HEMBA1003309,	HEMBA1003322,	HEMBA1003328,
	HEMBA1003348,	HEMBA1003369,	HEMBA1003376,	HEMBA1003384,	HEMBA1003395,
25	HEMBA1003463,	HEMBA1003480,	HEMBA1003531,	HEMBA1003548,	HEMBA1003591,
	HEMBA1003595,	HEMBA1003597,	HEMBA1003617,	HEMBA1003621,	HEMBA1003622,
	HEMBA1003637,	HEMBA1003640,	HEMBA1003645,	HEMBA1003646,	HEMBA1003656,
	HEMBA1003679,	HEMBA1003692,	HEMBA1003715,	HEMBA1003720,	HEMBA1003725,
30	HEMBA1003729,	HEMBA1003758,	HEMBA1003803,	HEMBA1003805,	HEMBA1003836,
	HEMBA1003838,	HEMBA1003879,	HEMBA1003885,	HEMBA1003893,	HEMBA1003908,
	HEMBA1003937,	HEMBA1003942,	HEMBA1003953,	HEMBA1003958,	HEMBA1003959,
	HEMBA1003978,	HEMBA1003987,	HEMBA1003989,	HEMBA1004000,	HEMBA1004011,
35	HEMBA1004012,	HEMBA1004015,	HEMBA1004024,	HEMBA1004049,	HEMBA1004056,
	HEMBA1004111,	HEMBA1004132,	HEMBA1004143,	HEMBA1004164,	
	HEMBA1004199,	HEMBA1004200,	HEMBA1004207,	HEMBA1004225,	HEMBA1004246,
	HEMBA1004248,	HEMBA1004267,	HEMBA1004289,	HEMBA1004312,	HEMBA1004323,
40	HEMBA1004335,	HEMBA1004353,	HEMBA1004354,	HEMBA1004356,	HEMBA1004366,
	HEMBA1004396,	HEMBA1004405,	HEMBA1004429,	HEMBA1004433,	HEMBA1004460,
	HEMBA1004499,	HEMBA1004502,	HEMBA1004506,	HEMBA1004534,	HEMBA1004538,
	HEMBA1004573,	HEMBA1004577,	HEMBA1004586,	HEMBA1004610,	HEMBA1004629,
45	HEMBA1004666,	HEMBA1004669,	HEMBA1004672,	HEMBA1004709,	HEMBA1004733,
	HEMBA1004736,	HEMBA1004748,	HEMBA1004751,	HEMBA1004758,	HEMBA1004763,
	HEMBA1004768,	HEMBA1004770,	HEMBA1004778,	HEMBA1004803,	HEMBA1004820,
	HEMBA1004847,	HEMBA1004863,	HEMBA1004880,	HEMBA1004909,	HEMBA1004918,
50	HEMBA1004923,	HEMBA1004930,	HEMBA1004934,	HEMBA1004944,	HEMBA1004954,
	HEMBA1004980,	HEMBA1005035,	HEMBA1005039,	HEMBA1005075,	HEMBA1005079,
	HEMBA1005113,	HEMBA1005123,	HEMBA1005133,	HEMBA1005149,	HEMBA1005152,
	HEMBA1005219,	HEMBA1005223,	HEMBA1005232,	HEMBA1005251,	HEMBA1005274,
55	HEMBA1005275,	HEMBA1005304,	HEMBA1005311,	HEMBA1005314,	HEMBA1005359,
	HEMBA1005367,	HEMBA1005374,	HEMBA1005410,	HEMBA1005411,	HEMBA1005423,
	HEMBA1005426,	HEMBA1005443,	HEMBA1005447,	HEMBA1005474,	HEMBA1005508,

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	HEMBA1005511,	HEMBA1005520,	HEMBA1005526,	HEMBA1005548,	HEMBA1005552,
	HEMBA1005576,	HEMBA1005581,	HEMBA1005582,	HEMBA1005583,	HEMBA1005588,
	HEMBA1005595,	HEMBA1005609,	HEMBA1005616,	HEMBA1005627,	HEMBA1005631,
5	HEMBA1005666,	HEMBA1005670,	HEMBA1005679,	HEMBA1005699,	HEMBA1005705,
	HEMBA1005765,	HEMBA1005780,	HEMBA1005822,	HEMBA1005829,	HEMBA1005834,
	HEMBA1005853,	HEMBA1005891,	HEMBA1005894,	HEMBA1005911,	HEMBA1005921,
	HEMBA1005991,	HEMBA1005999,	HEMBA1006036,	HEMBA1006042,	HEMBA1006100,
10	HEMBA1006138,	HEMBA1006142,	HEMBA1006268,	HEMBA1006278,	HEMBA1006328,
	HEMBA1006344,	HEMBA1006359,	HEMBA1006398,	HEMBA1006416,	HEMBA1006419,
	HEMBA1006421,	HEMBA1006426,	HEMBA1006438,	HEMBA1006483,	HEMBA1006485,
	HEMBA1006502,	HEMBA1006507,	HEMBA1006546,	HEMBA1006559,	HEMBA1006562,
15	HEMBA1006579,	HEMBA1006597,	HEMBA1006612,	HEMBA1006617,	HEMBA1006631,
	HEMBA1006635,	HEMBA1006652,	HEMBA1006695,	HEMBA1006744,	HEMBA1006754,
	HEMBA1006779,	HEMBA1006780,	HEMBA1006795,	HEMBA1006821,	HEMBA1006865,
	HEMBA1006926,	HEMBA1006973,	HEMBA1007017,	HEMBA1007052,	HEMBA1007080,
20	HEMBA1007085,	HEMBA1007113,	HEMBA1007121,	HEMBA1007147,	HEMBA1007149,
	HEMBA1007206,	HEMBA1007224,	HEMBA1007256,	HEMBA1007267,	HEMBA1007288,
	HEMBA1007327,	HEMBA1007341,	HEMBA1007347,		
	HEMBB1000005,	HEMBB1000008,	HEMBB1000018,	HEMBB1000024,	HEMBB1000030,
25	HEMBB1000039,	HEMBB1000048,	HEMBB1000054,	HEMBB1000059,	HEMBB1000083,
	HEMBB1000089,	HEMBB1000099,	HEMBB1000113,	HEMBB1000141,	HEMBB1000144,
	HEMBB1000173,	HEMBB1000175,	HEMBB1000215,	HEMBB1000218,	HEMBB1000258,
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30	HEMBB1000343,	HEMBB1000354,	HEMBB1000374,	HEMBB1000376,	HEMBB1000420,
	HEMBB1000434,	HEMBB1000441,	HEMBB1000449,	HEMBB1000490,	HEMBB1000491,
	HEMBB1000523,	HEMBB1000530,	HEMBB1000550,	HEMBB1000554,	HEMBB1000573,
	HEMBB1000575,	HEMBB1000593,	HEMBB1000598,	HEMBB1000638,	HEMBB1000643,
35	HEMBB1000649,	HEMBB1000671,	HEMBB1000684,	HEMBB1000709,	HEMBB1000726,
	HEMBB1000770,	HEMBB1000774,	HEMBB1000790,	HEMBB1000835,	HEMBB1000840,
	HEMBB1000848,	HEMBB1000870,	HEMBB1000883,	HEMBB1000887,	HEMBB1000890,
	HEMBB1000910,	HEMBB1000917,	HEMBB1000959,	HEMBB1000985,	HEMBB1000996,
40	HEMBB1001004,	HEMBB1001020,	HEMBB1001024,	HEMBB1001037,	HEMBB1001060,
	HEMBB1001096,	HEMBB1001114,	HEMBB1001117,	HEMBB1001142,	HEMBB1001153,
	HEMBB1001177,	HEMBB1001210,	HEMBB1001218,	HEMBB1001242,	HEMBB1001267,
	HEMBB1001289,	HEMBB1001346,	HEMBB1001348,	HEMBB1001364,	
45	HEMBB1001366,	HEMBB1001369,	HEMBB1001380,	HEMBB1001387,	HEMBB1001394,
	HEMBB1001426,	HEMBB1001436,	HEMBB1001454,	HEMBB1001463,	HEMBB1001521,
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	HEMBB1001619,	HEMBB1001668,	HEMBB1001685,	HEMBB1001695,	HEMBB1001704,
50	HEMBB1001706,	HEMBB1001707,	HEMBB1001735,	HEMBB1001747,	HEMBB1001749,
	HEMBB1001760,	HEMBB1001812,	HEMBB1001816,	HEMBB1001831,	HEMBB1001836,
	HEMBB1001850,	HEMBB1001863,	HEMBB1001867,	HEMBB1001908,	HEMBB1001910,
	HEMBB1001911,	HEMBB1001915,	HEMBB1001921,	HEMBB1001930,	HEMBB1001944,
55	HEMBB1001952,	HEMBB1001957,	HEMBB1001967,	HEMBB1001988,	HEMBB1001997,
	HEMBB1002005,	HEMBB1002042,	HEMBB1002043,	HEMBB1002045,	HEMBB1002049,
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	HEMBB1002425,	HEMBB1002453,	HEMBB1002492,	HEMBB1002520,	HEMBB1002556,
5	HEMBB1002582,	HEMBB1002590,	HEMBB1002607,	HEMBB1002614,	HEMBB1002617,
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	HEMBB1002697,	HEMBB1002699,	HEMBB1002705,		
	MAMMA1000009,	MAMMA1000043,	MAMMA1000045,	MAMMA1000084,	MAMMA1000103,
10	MAMMA1000134,	MAMMA1000139,	MAMMA1000143,	MAMMA1000171,	MAMMA1000241,
	MAMMA1000251,	MAMMA1000254,	MAMMA1000257,	MAMMA1000264,	MAMMA1000266,
	MAMMA1000270,	MAMMA1000279,	MAMMA1000287,	MAMMA1000340,	MAMMA1000348,
	MAMMA1000360,	MAMMA1000361,	MAMMA1000372,	MAMMA1000385,	MAMMA1000402,
15	MAMMA1000424,	MAMMA1000478,	MAMMA1000500,	MAMMA1000522,	MAMMA1000524,
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	MAMMA1000597,	MAMMA1000605,	MAMMA1000616,	MAMMA1000643,	MAMMA1000664,
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20	MAMMA1000744,	MAMMA1000746,	MAMMA1000752,	MAMMA1000760,	MAMMA1000761,
	MAMMA1000776,	MAMMA1000802,	MAMMA1000824,	MAMMA1000839,	MAMMA1000880,
	MAMMA1000905,	MAMMA1000931,	MAMMA1000940,	MAMMA1000941,	MAMMA1000943,
	MAMMA1000957,	MAMMA1000962,	MAMMA1000968,	MAMMA1000987,	MAMMA1000998,
25	MAMMA1001003,	MAMMA1001035,	MAMMA1001038,	MAMMA1001067,	MAMMA1001078,
	MAMMA1001092,	MAMMA1001126,	MAMMA1001133,	MAMMA1001139,	MAMMA1001161,
	MAMMA1001186,	MAMMA1001202,	MAMMA1001206,	MAMMA1001220,	MAMMA1001243,
	MAMMA1001268,	MAMMA1001274,	MAMMA1001296,	MAMMA1001298,	MAMMA1001305,
30	MAMMA1001343,	MAMMA1001383,	MAMMA1001397,	MAMMA1001419,	MAMMA1001420,
	MAMMA1001435,	MAMMA1001442,	MAMMA1001663,	MAMMA1001670,	MAMMA1001683,
	MAMMA1001692,	MAMMA1001740,	MAMMA1001745,	MAMMA1001754,	MAMMA1001768,
	MAMMA1001769,	MAMMA1001783,	MAMMA1001785,	MAMMA1001806,	MAMMA1001890,
35	MAMMA1001907,	MAMMA1001969,	MAMMA1002009,	MAMMA1002032,	MAMMA1002056,
	MAMMA1002058,	MAMMA1002125,	MAMMA1002132,	MAMMA1002140,	MAMMA1002155,
	MAMMA1002158,	MAMMA1002174,	MAMMA1002198,	MAMMA1002230,	MAMMA1002293,
	MAMMA1002310,	MAMMA1002311,	MAMMA1002322,	MAMMA1002339,	MAMMA1002359,
40	MAMMA1002384,	MAMMA1002428,	MAMMA1002434,	MAMMA1002475,	MAMMA1002494,
	MAMMA1002545,	MAMMA1002573,	MAMMA1002603,	MAMMA1002619,	MAMMA1002622,
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45	MAMMA1002769,	MAMMA1002820,	MAMMA1002830,	MAMMA1002833,	MAMMA1002868,
	MAMMA1002871,	MAMMA1002892,	MAMMA1002895,	MAMMA1002908,	MAMMA1002909,
	MAMMA1002930,	MAMMA1002941,	MAMMA1002964,	MAMMA1002970,	MAMMA1002973,
	MAMMA1002987,	MAMMA1003004,	MAMMA1003040,	MAMMA1003066,	MAMMA1003089,
50	NT2RM1000039,	NT2RM1000672,	NT2RM1000691,	NT2RM1000725,	NT2RM1000781,
	NT2RM1000829,	NT2RM1000882,	NT2RM1001105,	NT2RM2000013,	NT2RM2000374,
	NT2RM2000420,	NT2RM2000452,	NT2RM2000504,	NT2RM2000609,	NT2RM2000635,
	NT2RM2000735,	NT2RM2000795,	NT2RM2000821,	NT2RM2001035,	NT2RM2001105,
55	NT2RM2001141,	NT2RM2001177,	NT2RM2001196,	NT2RM2001306,	NT2RM2001524,
	NT2RM2001582,	NT2RM2001588,	NT2RM2001592,	NT2RM2001605,	NT2RM2001632,
	NT2RM2001637,	NT2RM2001648,	NT2RM2001668,	NT2RM2001671,	NT2RM2001675,

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	NT2RM2001681,	NT2RM2001695,	NT2RM2001699,	NT2RM2001706,	NT2RM2001723,
	NT2RM2001753,	NT2RM2001771,	NT2RM2001797,	NT2RM2001840,	NT2RM2001879,
	NT2RM2002049,	NT2RM2002091,	NT2RM4000265,	NT2RM4000290,	NT2RM4000324,
5	NT2RM4000327,	NT2RM4000368,	NT2RM4000421,	NT2RM4000425,	NT2RM4000471,
	NT2RM4000486,	NT2RM4000531,	NT2RM4000532,	NT2RM4000712,	NT2RM4000751,
	NT2RM4000787,	NT2RM4000790,	NT2RM4000820,	NT2RM4000852,	NT2RM4000855,
	NT2RM4000895,	NT2RM4000996,	NT2RM4001002,	NT2RM4001032,	NT2RM4001047,
10	NT2RM4001116,	NT2RM4001151,	NT2RM4001200,	NT2RM4001313,	NT2RM4001371,
	NT2RM4001410,	NT2RM4001411,	NT2RM4001437,	NT2RM4001454,	NT2RM4001483,
	NT2RM4001489,	NT2RM4001522,	NT2RM4001557,	NT2RM4001566,	NT2RM4001582,
	NT2RM4001650,	NT2RM4001682,	NT2RM4001746,	NT2RM4001828,	NT2RM4001842,
15	NT2RM4001865,	NT2RM4001922,	NT2RM4001953,	NT2RM4001979,	NT2RM4002013,
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 Y79AA1002472, Y79AA1002482

On the other hand, clones of which expression levels decreased by RA are as follows:

35 HEMBA1000946, HEMBA1003569, HEMBA1005570, HEMBB1000915, NT2RM1000666,
 NT2RM2000092, NT2RM2000594, NT2RM2001256, NT2RM4001754, NT2RM4001905,
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 NT2RP3004594, NT2RP4001950, NT2RP4002408, OVARC1000431, OVARC1001942,
 40 OVARC1001943, PLACE1003190, PLACE1004868, PLACE1005923, PLACE1007257,
 PLACE1010624, Y79AA1000346

Clones of which expression levels increase by RA/inhibitor are as follows:

45 HEMBA1000046, HEMBA1000307, HEMBA1000434, HEMBA1000504, HEMBA1000588,
 HEMBA1000682, HEMBA1000726, HEMBA1000943, HEMBA1001071, HEMBA1001094,
 HEMBA1001122, HEMBA1001323, HEMBA1001361, HEMBA1001455, HEMBA1001709,
 HEMBA1001746, HEMBA1001869, HEMBA1002084, HEMBA1002583, HEMBA1002628,
 HEMBA1002801, HEMBA1002937, HEMBA1003096, HEMBA1003142, HEMBA1003229,
 50 HEMBA1003276, HEMBA1003309, HEMBA1003463, HEMBA1003597, HEMBA1003617,
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 HEMBA1004015, HEMBA1004024, HEMBA1004049, HEMBA1004056, HEMBA1004199,
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 55 HEMBA1004770, HEMBA1004803, HEMBA1004923, HEMBA1004934, HEMBA1004954,
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	HEMBA1005666,	HEMBA1005755,	HEMBA1005780,	HEMBA1006067,	HEMBA1006130,
5	HEMBA1006364,	HEMBA1006485,	HEMBA1006559,	HEMBA1006579,	HEMBA1006754,
	HEMBB1000059,	HEMBB1000575,	HEMBB1000709,	HEMBB1000822,	HEMBB1000848,
	HEMBB1000852,	HEMBB1000913,	HEMBB1000985,	HEMBB1001117,	HEMBB1001210,
	HEMBB1001317,	HEMBB1001394,	HEMBB1001443,	HEMBB1001668,	HEMBB1001695,
10	HEMBB1002049,	HEMBB1002254,	HEMBB1002266,	HEMBB1002371,	HEMBB1002502,
	HEMBB1002614,	HEMBB1002617,	HEMBB1002692,	HEMBB1002697,	MAMMA1000241,
	MAMMA1000424,	MAMMA1000616,	MAMMA1000731,	MAMMA1000824,	MAMMA1000908,
	MAMMA1000956,	MAMMA1001038,	MAMMA1001091,	MAMMA1001243,	MAMMA1001815,
15	MAMMA1001820,	MAMMA1002267,	MAMMA1002769,	MAMMA1002871,	MAMMA1002941,
	NT2RM1000355,	NT2RM1000725,	NT2RM1000829,	NT2RM1000850,	NT2RM1000898,
	NT2RM2000504,	NT2RM2000635,	NT2RM2000718,	NT2RM2000821,	NT2RM2001370,
	NT2RM2001582,	NT2RM2001592,	NT2RM2001613,	NT2RM2001632,	
20	NT2RM2001635,	NT2RM2001648,	NT2RM2001659,	NT2RM2001671,	NT2RM2001695,
	NT2RM2001760,	NT2RM2001782,	NT2RM2001839,	NT2RM2001879,	NT2RM2001983,
	NT2RM4000104,	NT2RM4000290,	NT2RM4000425,	NT2RM4000433,	NT2RM4000471,
	NT2RM4000531,	NT2RM4000852,	NT2RM4001047,	NT2RM4001347,	NT2RM4001454,
25	NT2RM4001557,	NT2RM4001566,	NT2RM4001582,	NT2RM4001938,	NT2RM4001953,
	NT2RM4002018,	NT2RM4002409,	NT2RM4002558,	NT2RM4002594,	NT2RP1000259,
	NT2RP1000418,	NT2RP1000574,	NT2RP1000629,	NT2RP1000782,	NT2RP1000856,
	NT2RP1000943,	NT2RP1000988,	NT2RP1001013,	NT2RP1001173,	NT2RP1001546,
30	NT2RP2000091,	NT2RP2000208,	NT2RP2000274,	NT2RP2000329,	NT2RP2000369,
	NT2RP2000634,	NT2RP2000842,	NT2RP2000943,	NT2RP2000987,	NT2RP2001094,
	NT2RP2001277,	NT2RP2001290,	NT2RP2001366,	NT2RP2001423,	NT2RP2001436,
	NT2RP2001467,	NT2RP2001506,	NT2RP2001601,	NT2RP2001663,	NT2RP2001926,
35	NT2RP2001985,	NT2RP2002032,	NT2RP2002041,	NT2RP2002046,	NT2RP2002078,
	NT2RP2002124,	NT2RP2002185,	NT2RP2002193,	NT2RP2002312,	NT2RP2002316,
	NT2RP2002426,	NT2RP2002457,	NT2RP2002475,	NT2RP2002520,	NT2RP2002595,
	NT2RP2002643,	NT2RP2002672,	NT2RP2002701,	NT2RP2002710,	NT2RP2002727,
40	NT2RP2003099,	NT2RP2003121,	NT2RP2003137,	NT2RP2003158,	NT2RP2003206,
	NT2RP2003230,	NT2RP2003272,	NT2RP2003280,	NT2RP2003347,	NT2RP2003393,
	NT2RP2003401,	NT2RP2003445,	NT2RP2003456,	NT2RP2003511,	NT2RP2003517,
	NT2RP2003543,	NT2RP2003596,	NT2RP2003706,	NT2RP2003871,	NT2RP2004681,
45	NT2RP2004743,	NT2RP2004775,	NT2RP2004933,	NT2RP2004967,	NT2RP2005003,
	NT2RP2005270,	NT2RP2005289,	NT2RP2005344,	NT2RP2005453,	NT2RP2005555,
	NT2RP2005767,	NT2RP2005853,	NT2RP2006043,	NT2RP2006393,	NT2RP2006436,
	NT2RP2006441,	NT2RP2006467,	NT2RP2006534,	NT2RP2006565,	NT2RP3000348,
50	NT2RP3000359,	NT2RP3000366,	NT2RP3000403,	NT2RP3000418,	NT2RP3000441,
	NT2RP3000561,	NT2RP3000759,	NT2RP3000826,	NT2RP3001007,	NT2RP3001096,
	NT2RP3001126,	NT2RP3001355,	NT2RP3001396,	NT2RP3001449,	NT2RP3001490,
	NT2RP3001679,	NT2RP3001727,	NT2RP3001752,	NT2RP3001777,	NT2RP3001782,
55	NT2RP3001799,	NT2RP3001854,	NT2RP3001989,	NT2RP3002142,	NT2RP3002248,
	NT2RP3002343,	NT2RP3002484,	NT2RP3002529,	NT2RP3002549,	NT2RP3002628,
	NT2RP3002687,	NT2RP3002688,	NT2RP3002810,	NT2RP3003032,	NT2RP3003139,

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	NT2RP3003193,	NT2RP3003203,	NT2RP3003204,	NT2RP3003210,	NT2RP3003212,
	NT2RP3003264,	NT2RP3003282,	NT2RP3003500,	NT2RP3004041,	NT2RP3004215,
	NT2RP4000147,	NT2RP4000259,	NT2RP4000360,	NT2RP4000448,	NT2RP4000524,
5	NT2RP4000588,	NT2RP4000879,	NT2RP4000907,	NT2RP4000989,	NT2RP4001079,
	NT2RP4001150,	NT2RP4001219,	NT2RP4001260,	NT2RP4001274,	NT2RP4001353,
	NT2RP4001547,	NT2RP4001677,	NT2RP4002052,	OVARC1000006,	OVARC1000092,
	OVARC1000321,	OVARC1000384,	OVARC1000408,	OVARC1000414,	OVARC1000520,
10	OVARC1000526,	OVARC1000588,	OVARC1000679,	OVARC1000682,	OVARC1000769,
	OVARC1000850,	OVARC1000862,	OVARC1000886,	OVARC1000984,	OVARC1001000,
	OVARC1001004,	OVARC1001154,	OVARC1001170,	OVARC1001173,	OVARC1001200,
	OVARC1001268,	OVARC1001376,	OVARC1001419,	OVARC1001425,	OVARC1001476,
15	OVARC1001480,	OVARC1001542,	OVARC1001873,	OVARC1001928,	OVARC1001987,
	OVARC1002066,	OVARC1002082,	OVARC1002112,	OVARC1002127,	
	PLACE1000014,	PLACE1000048,	PLACE1000184,	PLACE1000185,	PLACE1000246,
	PLACE1000292,	PLACE1000332,	PLACE1000347,	PLACE1000564,	PLACE1000656,
20	PLACE1000712,	PLACE1001000,	PLACE1001168,	PLACE1001185,	PLACE1001241,
	PLACE1001294,	PLACE1001311,	PLACE1001395,	PLACE1001570,	PLACE1001608,
	PLACE1001610,	PLACE1001716,	PLACE1001746,	PLACE1001817,	PLACE1001821,
	PLACE1001844,	PLACE1001897,	PLACE1002066,	PLACE1002119,	PLACE1002157,
25	PLACE1002205,	PLACE1002256,	PLACE1002259,	PLACE1002399,	PLACE1002438,
	PLACE1002474,	PLACE1002477,	PLACE1002500,	PLACE1002514,	
	PLACE1002578,	PLACE1002815,	PLACE1002851,	PLACE1002968,	PLACE1003108,
	PLACE1003174,	PLACE1003200,	PLACE1003238,	PLACE1003256,	PLACE1003334,
30	PLACE1003342,	PLACE1003516,	PLACE1003521,	PLACE1003537,	PLACE1003592,
	PLACE1003596,	PLACE1003723,	PLACE1003760,	PLACE1003771,	PLACE1003783,
	PLACE1003795,	PLACE1003892,	PLACE1003968,	PLACE1004103,	PLACE1004256,
	PLACE1004405,	PLACE1004460,	PLACE1004506,	PLACE1004629,	PLACE1004674,
35	PLACE1004813,	PLACE1004979,	PLACE1005066,	PLACE1005101,	PLACE1005102,
	PLACE1005128,	PLACE1005181,	PLACE1005287,	PLACE1005305,	PLACE1005327,
	PLACE1005477,	PLACE1005595,	PLACE1005603,	PLACE1005666,	PLACE1005804,
	PLACE1005884,	PLACE1005934,	PLACE1006076,	PLACE1006119,	PLACE1006159,
40	PLACE1006164,	PLACE1006170,	PLACE1006382,	PLACE1006492,	PLACE1006629,
	PLACE1006704,	PLACE1006731,	PLACE1006760,	PLACE1006779,	PLACE1006795,
	PLACE1006805,	PLACE1006962,	PLACE1007045,	PLACE1007111,	PLACE1007282,
	PLACE1007386,	PLACE1007416,	PLACE1007484,	PLACE1007544,	PLACE1007645,
45	PLACE1007743,	PLACE1007746,	PLACE1007807,	PLACE1007858,	PLACE1008002,
	PLACE1008181,	PLACE1008273,	PLACE1008368,	PLACE1008405,	PLACE1008532,
	PLACE1008568,	PLACE1008625,	PLACE1008696,	PLACE1008867,	PLACE1009027,
	PLACE1009039,	PLACE1009045,	PLACE1009110,	PLACE1009298,	PLACE1009328,
50	PLACE1009581,	PLACE1009621,	PLACE1009622,	PLACE1009637,	PLACE1009925,
	PLACE1009935,	PLACE1010089,	PLACE1010106,	PLACE1010152,	PLACE1010274,
	PLACE1010491,	PLACE1010629,	PLACE1010630,	PLACE1010714,	PLACE1010739,
	PLACE1010891,	PLACE1010896,	PLACE1010925,	PLACE1010965,	PLACE1011026,
55	PLACE1011046,	PLACE1011214,	PLACE1011399,	PLACE1011433,	PLACE1011492,
	PLACE1011641,	PLACE1011649,	PLACE1011719,	PLACE1011762,	PLACE1011858,
	PLACE1011923,	PLACE2000014,	PLACE2000039,	PLACE2000216,	PLACE2000302,

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PLACE2000317, PLACE2000342, PLACE2000347, PLACE2000379, PLACE3000121,
 PLACE3000124, PLACE3000160, PLACE3000242, PLACE3000271, PLACE3000353,
 PLACE3000362, PLACE3000365, PLACE3000400, PLACE3000401, PLACE4000034,
 5 PLACE4000089, PLACE4000522, PLACE4000558,
 SKNMC1000050, THYRO1000040, THYRO1000197, THYRO1000241, THYRO1000327,
 THYRO1000394, THYRO1000488, THYRO1000501, THYRO1000585, THYRO1000596,
 THYRO1000625, THYRO1000805, THYRO1000934, THYRO1001133, THYRO1001134,
 10 THYRO1001173, THYRO1001213, THYRO1001262, THYRO1001290, THYRO1001721,
 Y79AA1000037, Y79AA1000800, Y79AA1000976, Y79AA1001078, Y79AA1001228,
 Y79AA1001299, Y79AA1001402, Y79AA1001585, Y79AA1001696, Y79AA1001711,
 Y79AA1001827, Y79AA1001875, Y79AA1002027, Y79AA1002211, Y79AA1002234,
 15 Y79AA1002258

On the other hand, clones of which expression levels decrease by RA/inhibitor are as follows:

HEMBA1000012, HEMBA1000501, HEMBA1000946, HEMBA1003220, HEMBA1003403,
 HEMBA1003569, HEMBA1003591, HEMBA1003926, HEMBA1004168, HEMBA1004507,
 20 HEMBA1005009, HEMBA1005296, HEMBA1005528, HEMBA1005570, HEMBA1006467,
 HEMBA1006486, HEMBA1006492, HEMBA1007322, HEMBB1000055, HEMBB1000244,
 HEMBB1001665, MAMMA1000684, MAMMA1001139, MAMMA1001743, NT2RM1000257,
 NT2RM1000318, NT2RM1000539, NT2RM1000666, NT2RM2000092, NT2RM2000192,
 25 NT2RM2000371, NT2RM2000594, NT2RM4000511, NT2RM4001140, NT2RM4001754,
 NT2RM4001905, NT2RM4001940, NT2RM4002593, NT2RP1000086, NT2RP1000439,
 NT2RP1001073, NT2RP2000098, NT2RP2000965, NT2RP2001397, NT2RP2002047,
 NT2RP2004226, NT2RP2004396, NT2RP2004655, NT2RP2005126, NT2RP2005464,
 30 NT2RP2005712, NT2RP2005859, NT2RP2005890, NT2RP3000980, NT2RP3001383,
 NT2RP3001621, NT2RP3002081, NT2RP3002181, NT2RP3002244, NT2RP3002590,
 NT2RP3003059, NT2RP3004258, NT2RP3004378, NT2RP3004527,
 NT2RP3004594, NT2RP4001760, NT2RP4001950, NT2RP4002047, NT2RP4002408,
 35 NT2RP5003459, OVARC1000004, OVARC1000035, OVARC1000431, OVARC1001051,
 OVARC1001129, OVARC1001176, OVARC1001261, OVARC1001342, OVARC1001942,
 OVARC1001943, PLACE1002171, PLACE1002465, PLACE1003190, PLACE1003375,
 PLACE1004128, PLACE1005026, PLACE1005876, PLACE1005923, PLACE1007257,
 40 PLACE1007375, PLACE1007507, PLACE1008941, PLACE1010624, PLACE1011090,
 PLACE1011219, THYRO1000270, Y79AA1000346, Y79AA1001541

These clones are also associated with neural differentiation and, therefore, are candidates for genes associated with neurological diseases.

45 For example, if the protein encoded by the cDNA of the present invention is a regulatory factor of cellular conditions such as growth and differentiation, it can be used for developing medicines as follows. The protein or antibody provided by the invention is injected into a certain kind of cells by microinjection. Then, using the cells, it is possible to screen low
 50 molecular weight compounds by measuring the change in the cellular conditions, or the activation or inhibition of a particular gene. The screening can be performed as follows. First, the protein is expressed and purified as recombinant. The purified protein is microinjected into
 55 cells such as various cell lines, or primary culture cells, and the cellular change such as growth and differentiation can be examined. Alternatively, the induction of genes whose expression is known to be associated with a particular change of cellular conditions may be

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detected by the amount of mRNA or protein. Or, the amount of intracellular molecules (low molecular weight compounds, etc.) that is changed by the function of the gene product (protein) which is known to be associated with a particular change of cellular conditions may be detected.

5 The compounds to be screened (both low and high molecular compounds are acceptable) can be added to the culture media and assessed for their activity by measuring the change of the cellular conditions. Instead of microinjection, cell lines introduced with the gene obtained in the invention can be used for the screening. If the gene product is turn out to be associated
10 with a particular change in the cellular conditions, the change of the product can be used as a measurement for screening. Once a compound is screened out which can activate or inhibit the function of the protein of the invention, it can be applied for developing medicines.

15 If the protein encoded by the cDNA of the present invention is a secretory protein, membrane protein, or protein associated with signal transduction, glycoprotein, transcription, or diseases, it can be used in functional assays for developing medicines.

In case of a membrane protein, it is most likely to be a protein that functions as a receptor or ligand on the cell surface. Therefore, it is possible to reveal a new relationship between a
20 ligand and receptor by screening the membrane protein of the invention based on the binding activity with the known ligand or receptor. Screening can be performed according to the known methods.

For example, a ligand against the protein of the invention can be screened in the following
25 manner. Namely, a ligand that binds to a specific protein can be screened by a method comprising the steps of: (a) contacting a test sample with the protein of the invention or a partial peptide thereof, or cells expressing these, and (b) selecting a test sample that binds to said protein, said partial peptide, or said cells.

30 On the other hand, for example, screening using cells expressing the protein of the present invention that is a receptor protein can also be performed as follows. It is possible to screen receptors that is capable of binding to a specific protein by using procedures (a) attaching the sample cells to the protein of the invention or its partial peptide, and (b) selecting cells
35 that can bind to the said protein or its partial peptide.

In a following screening as an example, first the protein of the invention is expressed, and the recombinant protein is purified. Next, the purified protein is labeled, binding assay is performed using a various cell lines or primary cultured cells, and cells that are expressing a
40 receptor are selected (Growth and differentiation factors and their receptors, Shin-Seikagaku Jikken Kouza Vol.7 (1991) Honjiyo, Arai, Taniguchi, and Muramatsu edit, p203-236, Tokyo-Kagaku-Doujin). A protein of the invention can be labeled with RI such as ¹²⁵I, and enzyme (alkaline phosphatase etc.). Alternatively, a protein of the invention may be used without
45 labeling and then detected by using a labeled antibody against the protein. The cells that are selected by the above screening methods, which express a receptor of the protein of the invention, can be used for the further screening of an agonists or antagonists of the said
50 receptor.

Once the ligand binding to the protein of the invention, the receptor of the protein of the invention or the cells expressing the receptor are obtained by screening, it is possible to screen a compound that binds to the ligand and receptor. Also it is possible to screen a
55 compound that can inhibit both bindings (agonists or antagonists of the receptor, for example) by utilizing the binding activities.

When the protein of the invention is a receptor, the screening method comprises the steps of

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(a) contacting the protein of the invention or cells expressing the protein of the invention with the ligand, in the presence of a test sample, (b) detecting the binding activity between said protein or cells expressing said protein and the ligand, and (c) selecting a compound that reduces said binding activity when compared to the activity in the absence of the test sample. Furthermore, when the protein of the invention is a ligand, the screening method comprises the steps of (a) contacting the protein of the invention with its receptor or cells expressing the receptor in the presence of samples, (b) detecting the binding activity between the protein and its receptor or the cells expressing the receptor, and (c) selecting a compound that can potentially reduce the binding activity compared to the activity in the absence of the sample.

Samples to screen include cell extracts, expressed products from a gene library, synthesized low molecular compound, synthesized peptide, and natural compounds, for example, but are not construed to be listed here. A compound that is isolated by the above screening using a binding activity of the protein of the invention can also be used as a sample.

A compound isolated by the screening may be a candidate to be an agonist or an antagonist of the receptor of the protein. By utilizing an assay that monitors a change in the intracellular signaling such as phosphorylation which results from reduction of the binding between the protein and its receptor, it is possible to identify whether the obtained compound is an agonist or antagonist of the receptor. Also, the compound may be a candidate of a molecule that can inhibit the interaction between the protein and its associated proteins (including a receptor) in vivo. Such compounds can be used for developing drugs for precaution or cures of a disease with which the protein is associated.

Secretory proteins may regulate cellular conditions such as growth and differentiation. It is possible to find out a novel factor that regulates cellular conditions by adding the secretory protein of the invention to a certain kind of cell, and performing a screening by utilizing the cellular changes in growth or differentiation, or activation of a particular gene.

The screening can be performed, for example, as follows. First, the protein of the invention is expressed and purified in a recombinant form. Then, the purified protein is added to a various kind of cell lines or primary cultured cells, and the change in the cell growth and differentiation is monitored. The induction of a particular gene that is known to be involved in a certain cellular change is detected by the amounts of mRNA and protein. Alternatively, the amount of an intracellular molecule (low-molecular-weight compounds, etc.) that is changed by the function of a gene product (protein) that is known to function in a certain cellular change is used for the detection.

Once the screening reveals that the protein of the invention can regulate cellular conditions or the functions, it is possible to apply the protein as a pharmaceutical and diagnostic medicine for associated diseases by itself or by altering a part of it into an appropriate composition.

As is above described for membrane proteins, the secretory protein provided by the invention may be used to explore a novel ligand-receptor interaction using a screening based on the binding activity to a known ligand or receptor. A similar method can be used to identify an agonist or antagonist. The resulting compounds obtained by the methods can be a candidate of a compound that can inhibit the interaction between the protein of the invention and an interacting molecule (including a receptor). The compounds may be able to use as a preventive, therapeutic, and diagnostic medicine for the diseases, in which the protein may play a certain role.

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Proteins associated with signal transduction or transcription may be a factor that affects a certain protein or gene in response to intracellular/extracellular stimuli. It is possible to find out a novel factor that can affect a protein or gene by expressing the protein provided by
5 the invention in a certain types of cells, and performing a screening utilizing the activation of a certain intracellular protein or gene.

The screening may be performed as follows. First, a transformed cell line expressing the protein is obtained. Then, the transformed cell line and the untransformed original cell line
10 are compared for the changes in the expression of a certain gene by detecting the amount of its mRNA or protein. Alternatively, the amount of an intracellular molecule (low molecular weight compounds) that is changed by the function of a certain gene product (protein) may be used for the detection. Furthermore, the change of the expression of a certain gene can be detected by
15 introducing a fusion gene that comprises a regulatory region of the gene and a marker gene (luciferase, beta-galactosidase, etc.) into a cell, expressing the protein provided by the invention into the cell, and estimating the activity of a marker gene product (protein).

If the protein or gene of the invention is associated with diseases, it is possible to screen
20 a gene or compound that can regulate its expression and/or activity either directly or indirectly by utilizing the protein of the present invention.

For example, the protein of the invention is expressed and purified as a recombinant protein. Then, the protein or gene that interacts with the protein of the invention is purified, and
25 screened based on the binding. Alternatively, the screening can be performed by adding with a compound of a candidate of the inhibitor added in advance and monitoring the change of binding activity. In another method, a transcription regulatory region locating in the 5'-upstream of the gene encoding the protein of the invention that is capable of regulating the expression of
30 other genes is obtained, and fused with a marker gene. The fusion is introduced into a cell, and the cell is added with compounds to explore a regulatory factor of the expression of the said gene.

The compound obtained by the screening can be used for developing pharmaceutical and
35 diagnostic medicines for the diseases with which the protein of the present invention is associated. Similarly, if the regulatory factor obtained in the screening is turn out to be a protein, compounds that can newly affect the expression or activity of the protein may be used as a medicine for the diseases with which the protein of the invention is associated.

If the protein of the invention has an enzymatic activity, regardless as to whether it is a secretory protein, membrane protein, or proteins associated with signal transduction, glycoprotein, transcription, or diseases, a screening may be performed by adding a compound to
40 the protein of the invention and monitoring the change of the compound. The enzymatic activity may also be utilized to screen a compound that can inhibit the activity of the protein.

In a screening given as an example, the protein of the invention is expressed and the recombinant protein is purified. Then, compounds are contacted with the purified protein, and
50 the amount of the compound and the reaction products is examined. Alternatively, compounds that are candidates of an inhibitor are pretreated, then a compound (substrate) that can react with the purified protein is added, and the amount of the substrate and the reaction products is examined.

The compounds obtained in the screening may be used as a medicine for diseases with
55 which the protein of the invention is associated. Also they can be applied for tests that examine whether the protein of the invention functions normally *in vivo*.

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Whether the secretory protein, membrane protein, signal transduction-associated protein, glycoprotein-associated protein, or transcription-associated protein of the present invention is a novel protein associated with diseases or not is determined in another method than described
5 above, by obtaining a specific antibody against the protein of the invention, and examining the relationship between the expression or activity of the protein and a certain disease. In an alternative way, it may be analyzed referred to the methods in "Molecular Diagnosis of Genetic Diseases" (Elles R. edit, (1996) in the series of "Method in Molecular Biology" (Humana Press).

10 Proteins associated with diseases are targets of screening as mentioned, and thus are very useful in developing drugs which regulate their expression and activity. Also, the proteins are useful in the medicinal industry as a diagnostic marker of the associated disease or a target of gene therapy.

15 Compounds isolated as mentioned above can be administered patients as it is, or after formulated into a pharmaceutical composition according to the known methods. For example, a pharmaceutically acceptable carrier or vehicle, specifically sterilized water, saline, plant oil, emulsifier, or suspending agent can be mixed with the compounds appropriately. The
20 pharmaceutical compositions can be administered to patients by a method known to those skilled in the art, such as intraarterial, intravenous, or subcutaneous injections. The dosage may vary depending on the weight or age of a patient, or the method of administration, but those skilled in the art can choose an appropriate dosage properly. If the compound is encoded by
25 DNA, the DNA can be cloned into a vector for gene therapy, and used for gene therapy. The dosage of the DNA and the method of its administration may vary depending on the weight or age of a patient, or the symptoms, but those skilled in the art can choose properly.

The present invention further relates to databases comprising at least a sequence of
30 polynucleotide and/or protein, or a medium recorded in such databases, selected from the sequence data of the nucleotide and/or the amino acids indicated in Table 350 and Table 351. The term "database" means a set of accumulated information as machine-searchable and readable information of nucleotide sequence. The databases of the present invention comprise
35 at least one of the novel nucleotide sequences of polynucleotides provided by the present invention. The databases of the present invention can consist of only the sequence data of the novel polynucleotides provided by the present invention or can comprise other information on nucleotide sequences of known full-length cDNAs or ESTs. The databases of the present
40 invention can be comprised of not only the information on the nucleotide sequences but also the information on the gene functions revealed by the present invention. Additional information such as names of DNA clones carrying the full-length cDNAs can be recorded or linked together with the sequence data in the databases.

45 The database of the present invention is useful for gaining complete gene sequence information from partial sequence information of a gene of interest. The database of the present invention comprises nucleotide sequence information of full-length cDNAs. Consequently, by
50 comparing the information in this database with the nucleotide sequence of a partial gene fragment yielded by differential display method or subtraction method, the information on the full-length nucleotide sequence of interest can be gained from the sequence of the partial fragment as a starting clue.

55 The sequence information of the full-length cDNAs constituting the database of the present invention contains not only the information on the complete sequences but also extra information on expression frequency of the genes as well as homology of the genes to known genes and

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known proteins. Thus the extra information facilitates rapid functional analyses of partial gene fragments. Further, the information on human genes is accumulated in the database of the present invention, and therefore, the database is useful for isolating a human homologue
5 of a gene originating from other species. The human homologue can be isolated based on the nucleotide sequence of the gene from the original species.

At present, information on a wide variety of gene fragments can be obtained by differential display method and subtraction method. In general, these gene fragments are utilized as tools
10 for isolating the full-length sequences thereof. When the gene fragment corresponds to an already-known gene, the full-length sequence is easily obtained by comparing the partial sequence with the information in known databases. However, when there exists no information corresponding to the partial sequence of interest in the known databases, cDNA cloning should
15 be carried out for the full-length cDNA. It is often difficult to obtain the full-length nucleotide sequence using the partial sequence information as an initial clue. If the full-length of the gene is not available, the amino acid sequence of the protein encoded by the gene remains unidentified. Thus the database of the present invention can contribute to the
20 identification of full-length cDNAs corresponding to gene fragments, which cannot be revealed by using databases of known genes.

The present invention has provided 5602 novel full-length cDNA clones, and primers for synthesizing the cDNA. As has not yet proceeded the isolation of full-length cDNA within the
25 human, the invention has great significance. The full-length cDNA clones contain the translation initiation site, and thus provide a useful information for analysis of protein functions.

The cDNA clones are assumed to encode proteins such as secretory proteins, membrane proteins, signal transduction-associated protein, glycoprotein-associated protein, or
30 transcription-associated protein, etc., which have important functions in vivo, and also predicted to be associated with many diseases. The genes and proteins associated with diseases are useful for developing a diagnostic marker or medicines for regulation of their expression and activity, or as a target of gene therapy.

35 The invention is illustrated more specifically with reference to the following examples, but is not to be construed as being limited thereto.

40 EXAMPLE 1

Construction of a cDNA library by the oligo-capping method.

45 The NT-2 neuron progenitor cells (Stratagene), a teratocarcinoma cell line from human embryo testis, which can differentiate into neurons by the treatment with retinoic acid were used. The NT-2 cells were cultured according to the manufacturer's instructions as follows.

50 (1) NT-2 cells were cultured without induction by retinoic acid treatment (NT2RM1, NT2RM2, NT2RM4).

(2) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured
55 for 48 hours (NT2RP1).

(3) After cultured, NT-2 cells were induced by adding retinoic acid, and then were cultured

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for 2 weeks (NT2RP2, NT2RP3, NT2RP4, NT2RP5).

5 Also, the human neuroblastoma cell line SK-N-MC (ATCC HTB-10) (SKNMC1), and human retinoblastoma cell line Y79 (ATCC HTB-18) (Y79AA1) were cultured according to the culture conditions described in the ATCC catalogue (<http://www.atcc.org/>). The cells were harvested separately, and mRNA was extracted from each cell by the method described in the literature
10 (Molecular Cloning 2nd edition. (1989) Sambrook J., Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)⁺RNA was purified from the mRNA using oligo-dT cellulose.

Similarly, human placenta (PLACE1, PLACE2, PLACE3, PLACE4), human ovary cancer tissue
15 (OVARC1), tissues from human embryo at 10 weeks, which is enriched with head (HEMBA1), or body (HEMBB1), human mammary gland (MAMMA1), human thyroid gland (THYRO1), and primary cultured cells of human blood vessel endothelium (VESEN1) were used to extract mRNA by the method described in the literature (Molecular Cloning 2nd edition. (1989) Sambrook J.,
20 Fritsch, E.F., and Maniatis T., Cold Spring Harbor Laboratory Press). Furthermore, poly(A)⁺RNA was purified from the mRNA using oligo-dT cellulose.

Each poly(A)⁺RNA was used to construct a cDNA library by the oligo-capping method
25 (Maruyama M. and Sugano S. (1994) Gene, 138: 171-174). Using the Oligo-cap linker (SEQ ID NO: 10464) and the Oligo-dT primer (SEQ ID NO: 10465), bacterial alkaline phosphatase (BAP) treatment, tobacco acid phosphatase (TAP) treatment, RNA ligation, the first strand cDNA synthesis, and removal of RNA were performed as described in the reference (Suzuki and Kanno
30 (1996) Protein Nucleic acid and Enzyme, 41: 197-201; Suzuki Y. et al. (1997) Gene, 200: 149-156). Next, 5'- and 3'-PCR primers (SEQ ID NO: 10466, and 10467, respectively) were used for performing PCR to convert the cDNA into double stranded cDNA, which was then digested with SfiI. Then, the DraIII-cleaved pUC19FL3 vector (Figure 1; for NT2RM1, and NT2RP1), or the DraIII-cleaved pME18SFL3 (Figure 1) (GenBank AB009864, expression vector; for NT2RM2, NT2RM4,
35 NT2RP2, NT2RP3, NT2RP4, NT2RP5, SKNMC1, Y79AA1, PLACE1, PLACE2, PLACE3, PLACE4, OVARC1, HEMBA1, HEMBB1, MAMMA1, THYRO1, and VESEN1) was used for cloning the cDNA in a unidirectional manner, and cDNA libraries were obtained. The nucleotide sequence of the 5'- and 3'- ends of the cDNA clones was analyzed with a DNA sequencer (ABI PRISM 377, PE Biosystems) after sequencing reactions were performed with the DNA sequencing reagents (Dye Terminator Cycle Sequencing FS Ready Reaction Kit, dRhodamine Terminator Cycle Sequencing FS Ready Reaction Kit, or BigDye Terminator Cycle Sequencing FS Ready Reaction
40 Kit, PE Biosystems), according to the instructions. The data were compiled into a database.

45 The full-length-enriched cDNA libraries except those for NT2RM1 and NT2RP1 were constructed using eukaryotic expression vector pME18SFL3. The vector contains SR α promoter and SV40 small t intron in the upstream of the cloning site, and SV40 polyA added signal sequence site in the downstream. As the cloning site of pME18SFL3 has asymmetrical DraIII sites, and the ends of cDNA fragments contain SfiI sites complementary to the DraIII sites, the cloned cDNA fragments can be inserted into the downstream of the SR α promoter unidirectionally. Therefore, clones containing full-length cDNA can be expressed transiently by
50 introducing the obtained plasmid directly into COS cells. Thus, the clones can be analyzed very easily in terms of the proteins that are the gene products of the clones, or in terms of the biological activities of the proteins.

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Herein, the cDNA libraries and the name of each clone are related as shown in Table 3. Therein, "xxxxxx" represents the clone number of six digits. Thus, the sequences are named by the library name, the clone number plus F- for the 5'-end, or R- for the 3'-end.

Table 3

library: clone	5'-end sequence	3'-end sequence
NT2RM1:		
NT2RM1xxxxxx	F-NT2RM1xxxxxx	
NT2RP1:		
NT2RP1xxxxxx	F-NT2RP1xxxxxx	
NT2RM2:		
NT2RM2xxxxxx	F-NT2RM2xxxxxx	R-NT2RM2xxxxxx
NT2RM4:		
NT2RM4xxxxxx	F-NT2RM4xxxxxx	R-NT2RM4xxxxxx

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	NT2RP2:		
	NT2RP2xxxxxx	F-NT2RP2xxxxxx	R-NT2RP2xxxxxx
5	NT2RP3:		
	NT2RP3xxxxxx	F-NT2RP3xxxxxx	R-NT2RP3xxxxxx
	NT2RP4:		
	NT2RP4xxxxxx	F-NT2RP4xxxxxx	R-NT2RP4xxxxxx
10	NT2RP5:		
	NT2RP5xxxxxx	F-NT2RP5xxxxxx	R-NT2RP5xxxxxx
	SKNMC1:		
	SKNMC1xxxxxx	F-SKNMC1xxxxxx	R-SKNMC1xxxxxx
15	Y79AA1:		
	Y79AA1xxxxxx	F-Y79AA1xxxxxx	R-Y79AA1xxxxxx
	PLACE1:		
	PLACE1xxxxxx	F-PLACE1xxxxxx	R-PLACE1xxxxxx
20	PLACE2:		
	PLACE2xxxxxx	F-PLACE2xxxxxx	R-PLACE2xxxxxx
	PLACE3:		
25	PLACE3xxxxxx	F-PLACE3xxxxxx	R-PLACE3xxxxxx
	PLACE4:		
	PLACE4xxxxxx	F-PLACE4xxxxxx	R-PLACE4xxxxxx
	OVARC1:		
30	OVARC1xxxxxx	F-OVARC1xxxxxx	R-OVARC1xxxxxx
	HEMBA1:		
	HEMBA1xxxxxx	F-HEMBA1xxxxxx	R-HEMBA1xxxxxx
	HEMBB1:		
35	HEMBB1xxxxxx	F-HEMBB1xxxxxx	R-HEMBB1xxxxxx
	MAMMA1:		
	MAMMA1xxxxxx	F-MAMMA1xxxxxx	R-MAMMA1xxxxxx
	THYRO1:		
40	THYRO1xxxxxx	F-THYRO1xxxxxx	R-THYRO1xxxxxx
	VESEN1:		
	VESEN1xxxxxx	F-VESEN1xxxxxx	R-VESEN1xxxxxx
45			

EXAMPLE 2

50 Estimation of the fullness ratio at the 5'-ends of the clones contained in the cDNA libraries constructed by the oligo-capping method.

55 The fullness ratio at the 5'-end sequence of the 59,823 clones in the human cDNA libraries constructed by the oligo-capping method was determined as follows. Of all the clones whose 5'-end sequences were found in those of known human mRNA in the public database, a clone was

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judged to be "full-length", if it had a longer 5'-end sequence than that of the known human mRNA, or, even though the 5'-end sequence was shorter, if it contained the translation initiation codon. A clone which did not contain the translation initiation codon was judged to be "not-full-length". The fullness ratio ((the number of full-length clones)/(the number of full-length and not-full-length clones)) at the 5'-end of the cDNA clones from each library was determined by comparing with the known human mRNA. As a result, the fullness ratio of the 5'-ends was 63.5%. The result indicates that the fullness ratio at the 5'-end sequence was extremely high.

EXAMPLE 3

Assessment of the fullness ratio of the 5'-end of the cDNA by the ATGpr and the ESTiMateFL.

The ATGpr, developed by Salamov A.A., Nishikawa T., and Swindells M.B. in the Helix Research Institute, is a program for prediction of the translation initiation codon based on the characteristics of the sequences in the vicinity of the ATG codon. The results are shown with expectations (also described as ATGpr1 below) that an ATG is a true initiation codon (0.05-0.94) (can be described as ATGpr1). When the program was applied to the 5'-end sequences of the clones from the cDNA library that was obtained by the oligo-capping method and that had 65% fullness ratio, the sensitivity and specificity of estimation of a full-length clone (clone containing the N-terminal end of ORF) were improved to 82-83% by selecting only clones having the ATGpr1 score 0.6 or higher.

Furthermore, the program was used to assess the fullness of 18,959 clones in the human libraries obtained here, which have 5'-ends matched to a known human mRNA.

Briefly, the maximal ATGpr1 score of the clones was determined, and then their 5'-end sequence was compared with the known human mRNA to estimate whether the clone is full-length or not. The result is shown in Table 4.

Based on the knowledge that known mRNAs, in general, are highly expressed in the cell, similar estimation was performed with genes having a low number in the EST hit, which represent relatively low abundant mRNAs, and the result is shown in Table 5.

In the table, the number of full-length clones indicate that of clones containing the N-terminal end of ORF, and so does the number of not-full-length clones that of clones without the N-terminal end of ORF. The fullness ratio represents (the number of full-length clones)/(the number of full-length clones plus the number of not-full-length clones).

Table 4

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having a matched 5'-end with that of a known mRNA.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
>=0.70	11,193	9,346	83.5%
>=0.50	13,369	10,549	78.9%
>=0.30	15,489	11,340	73.2%
>=0.15	17,394	11,811	67.9%

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The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having a matched 5'-end with that of a known mRNA.

maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
≥ 0.00	18,959	12,046	63.5%

Table 5

The maximal ATGpr1 score and the fullness ratio of the 5'-end sequences of the clones obtained from human cDNA libraries constructed by the oligo-capping method; clones having 5 EST hits or less among the clones having a matched 5'-end with that of a known mRNA.

maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
≥ 0.70	2,801	1,934	69.0%
≥ 0.50	3,683	2,393	65.0%
≥ 0.30	4,683	2,707	57.8%
≥ 0.15	5,559	2,890	52.0%
≥ 0.00	6,113	3,013	49.8%

Next, the ESTiMateFL was used for the estimation. The ESTiMateFL, developed by Nishikawa and Ota in the Helix Research Institute, is a method for the selection of a clone with high fullness ratio by comparing with the 5'-end or 3'-end sequences of ESTs in the public database.

By the method, a cDNA clone is judged to be most likely not to be full-length if there exist any ESTs which have longer 5'-end or 3'-end sequences than the clone. The method is systematized for high throughput analysis. A clone is judged to be full-length if the clone has a longer 5'-end sequence than ESTs in the public database. Even if a clone has a shorter 5'-end, the clone is judged to be full-length if the difference in length is within 50 bases, and otherwise judged not to be full-length, for convenience.

In case of the clones whose 5'-end sequence is matching with the known mRNA, 80% of the clones judged to be full-length by comparing with ESTs was also judged to be full-length by comparing with the known mRNA. Also, 80% of the clones judged to be not full-length by comparing with ESTs was also judged to be not full-length by comparing with the known mRNA.

The precision of the estimation by comparing with ESTs is improved with increasing number of ESTs to be compared. However, in case that a limited number of ESTs are available, the reliability becomes low. Thus, the method is effective in excluding clones with high probability of being not-full-length, from the cDNA clones that is synthesized by the oligo-capping method

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and that have the 5'-end sequences with about 60 % fullness ratio. In particular, the ESTiMateFL is efficiently used to estimate the fullness ratio at the 3'-end sequence of cDNA of a human unknown mRNA which has a significant number of EST deposits in the public database.

5 The 18,959 clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, were estimated by using the ATGpr and ESTiMateFL. Briefly, the 5'-end sequence of the respective clone was analyzed to obtain the maximal ATGpr1 score, and compared with the ORF of the known human
10 mRNA that matches with it to determine whether the clone is full-length or not. Then, the 5'-end sequence of the respective clone was analyzed by the ESTiMateFL to judge whether the clone is full-length or not. Specifically, the 5'-end sequences of the 18,959 clones were compared with those of ESTs by the ESTiMateFL and the clones other than those that are not full-length were
15 selected. Then, the selected clones were used to analyze the relationship between the ATGpr and the fullness ratio. The result was summarized in Table 6. Also, among the selected, the clones in which the number of the EST hit is not more than 5 were selected and analyzed. The result was summarized in Table 7, which represents the result of the analysis of mRNA with
20 relatively low abundance.

Therein, the number of being full-length, the number of being not full-length, and the fullness ratio indicate the number of the clones that contain the N-terminus of the ORF, the number of the clones that do not contain the N-terminus of the ORF, and (the number of being
25 full-length)/(the number of being full-length) plus (the number of being not full-length), respectively.

Table 6

30	The maximal ATGpr1 score and the fullness ratio of the 5'-end sequence in the clones isolated from human cDNA libraries constructed by the oligo-capping method, which have the 5'-end sequence matched with a known human mRNA, and also other than those being not full-length according to the comparison with ESTs.			
35	maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
40	>=0.70	9,068	8,349	92.1%
	>=0.50	10,345	9,318	90.1%
	>=0.30	11,425	9,964	87.2%
	>=0.15	12,254	10,335	84.3%
45	>=0.00	12,785	10,484	82.0%

50

55

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Table 7

Maximal ATGpr1 score and fullness ratio of the 5'-end sequence of the clones, which were isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA, in which the number of the EST hit is not more than 5.			
maximal ATGpr1 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
≥ 0.70	1,959	1,510	77.1%
≥ 0.50	2,469	1,821	73.8%
≥ 0.30	2,975	2,046	68.8%
≥ 0.15	3,368	2,164	64.3%
≥ 0.00	3,661	2,226	60.8%

The 19,226 clones, isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to that of a known human mRNA were estimated by the ATGpr2, and the correlation between the score and the fullness ratio was estimated. Specifically, the maximal ATGpr2 score of the clones identical to a known human mRNA was determined, and then their fullness ratio was estimated by comparing the 5'-ends with ORF of known human mRNA. The result was shown in Table 8.

Table 8

Maximal ATGpr2 score and fullness ratio of the 5'-end sequence of the clones, which are isolated from the human cDNA libraries constructed by the oligo-capping method, whose 5'-end sequence is identical to a known human mRNA.			
maximal ATGpr2 score	number of (full-length clones plus not-full-length clones)	number of full-length clones	fullness ratio
≥ 0.30	10,748	8,031	74.7%
≥ 0.15	16,383	11,226	68.5%
≥ 0.00	19,226	12,285	63.9%

According to the above results, it was found that, in case of using clones isolated from human cDNA libraries constructed by the oligo-capping method, the fullness ratio of the clones that have low score in the ATGpr can be improved by estimating their 5'-end sequence using the combination of the ATGpr and the ESTimateFL. Therefore, the method was applied to select a cDNA clone with high fullness ratio.

EXAMPLE 4

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Clustering of the 5'-end and 3'-end sequences of cDNA clones.

5 The 5'-end and 3'-end sequences of cDNA clones were obtained, and clustered separately.
The single pass data of the nucleotide sequence of the 5'-end and 3'-end was subject to the
BLAST search between the sequence data of all the clones synthesized in example 1, and the
clones considered to be originating from the same gene were put together into a group. If the 5'-
10 end of a clone contains the consensus sequence of 300 bases or more with identity 95% or
more, or the 3'-end contains the consensus sequence of 200 bases or more and having identity
90% or more, the clones were put in the same group.

15 The groups of the 5'-end sequence and the 3'-end sequence were further clustered so as that
the groups from the same clone can be in the same group (cluster).

EXAMPLE 5

20 Characterization of the cloned sequence.

The data of the 5'-end sequence of the cloned sequence was characterized by the following
way:

25 (1) examining whether it is identical to those of mRNA from human and other species
(including authorized sequences) and human EST by the BLAST homology search of the
GenBank,

30 (2) examining whether it has longer 5'-end than those of human mRNA and human EST,

35 (3) determining the scores in the ATGpr1 and ATGpr2 programs of all the initiation codons in
the 5'-end sequence, and

40 (4) determining the number of the human EST clone(s) that is judged to be identical by the
BLAST homology search of the GenBank.

45 The data of the 3'-end sequence of the cloned sequence was characterized by the above (1)
and (4).

These characterized data were used for the final selection of the clones.

EXAMPLE 6

50 Identity to the human mRNA and human EST, and comparison of the length of the 5'-end.

55 The 5'-end and 3'-end sequences of the cloned sequence was judged to be identical to those
of mRNA from human or other species when the sequence to compare has the length of 200
bases or longer, and the obtained homology is 94% or more. The 5'-end and 3'-end sequences
of the cloned sequence was judged to be identical to those of human EST when the sequence to

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compare has the length of 200 bases or longer, and the obtained homology is 90% or more.

The sequence of the clone was judged to be full-length in comparison with human mRNA when the sequence has longer 5'-end, or it contains the translation initiation site. The sequence of the clone was judged to be full-length in comparison with human EST in the database when the sequence has longer 5'-end, or while it has shorter end, the difference in length between the two sequences is 50 bases or less. The other clones were judged to be not full-length.

EXAMPLE 7

Prediction of the fullness ratio by the ATGpr.

The score in the ATGpr1 is the expectation to be full-length based on calculations, and the higher score reflects the higher probability to be full-length as shown in Example 3. The maximal ATGpr1 score and the maximal ATGpr2 score represent the score obtained with all the initiation codons contained in the 5'-end sequence of the cloned sequence, and were used for the characterization.

EXAMPLE 8

Prediction of the novelty using the number of the identical ESTs by the homology search.

For both the 5'-end and 3'-end sequences of the clones, the number of the identical ESTs was determined by the homology search on the GenBank. Human ESTs were judged to be identical when the EST has a sequence of 200 nucleotides or more with 90% or more matching with the 5'-end sequence. The number of the identical ESTs were used for characterization and as an index of novelty. The clone having not identical sequence at the 5'-end and 3'-end sequences to those of mRNA as well as those of ESTs is a gene encoding a novel protein. Similarly, a clone having either the 5'-end or the 3'-end sequences, which has low number of the identical ESTs, is judged to be a gene encoding a novel protein.

EXAMPLE 9

Characterization of clusters.

The clusters of the groups of the 5'-end and 3'-end sequences were characterized according to the following criteria.

(1) Whether it is identical to the mRNA sequences from human or other species (including authorized sequences), or human ESTs by the BLAST search of the GenBank.

A cluster containing at least one sequence of all the 5'-end and 3'-end sequences, which is identical to one of the mRNA sequences, was regarded to be the same cluster of the mRNA sequence.

(2) Whether it has longer 5'-end than human mRNA sequence and human ESTs.

When all the 5'-end sequences contained in a cluster are judged to be not full-length

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compared with the mRNA sequences and human ESTs, the cluster was regarded as being not full-length.

5 (3) The scores in the ATGpr1 and ATGpr2 using all the initiation codons contained in the 5'-end sequences.

The maximal ATGpr1 score among those of all the 5'-end sequences in a cluster was determined as the ATGpr1 score of the cluster. The ATGpr2 score of the cluster was also
10 determined in the same way.

(4) The number of the identical human ESTs determined by the BLAST search of the GenBank.

15

The maximum number was determined in the numbers of ESTs identical to each of 5'-end sequences contained in a cluster. The number of the ESTs identical to the 5'-end sequences in the cluster was defined as the maximum number. The number of the ESTs identical to the 3'-end
20 sequences in a cluster was determined in the same way.

EXAMPLE 10

25

Methods for selection of the clusters by the characteristics.

Data obtained by the characterization described above was used to discard the clusters that
30 are identical to any mRNA sequence from human and other species (including authorized sequences), or those clusters that are not full-length. From the rest of the clusters, the clusters that fulfill any of the following conditions were selected.

35 (a) A cluster in which the number of the identical ESTs for the 5'-end sequence is 20 or less, and the ATGpr1 score exceeds 0.3.

40 (b) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for both the 5'-end sequence and the 3'-end sequence is 5 or less, and multiple clones are contained.

45 (c) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is 0, and the number of the identical ESTs for the 3'-end sequence is not less than 1.

50 (d) A cluster having the ATGpr1 score not more than 0.3, in which the number of the identical ESTs for the 5'-end sequence is not less than 1 and not more than 5, and the number of the identical ESTs for the 3'-end sequence is 0.

55 The clusters selected by (a) contain at least one clone that is novel and having high fullness ratio. The clusters selected by (b), (c), and (d) contain at least one clone that is novel and having low fullness ratio, but is still full-length.

EXAMPLE 11

5 Methods for selection of clones from clusters.

In the clusters comprising a single clone, the clone was selected.

10 In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score higher than 0.3, a clone with the highest score was selected.

In the clusters comprising multiple clones, in which multiple clones have the ATGpr1 score not more than 0.3, a clone with the highest ATGpr2 score was selected, if the score was higher than 0.3.

15 In the clusters comprising multiple clones, in which the clones have the scores not more than 0.3 in both the ATGpr1 and the ATGpr2, a clone with the highest scores in both the ATGpr1 and ATGpr2 was selected.

20 In the clusters comprising multiple clones, in which the above selection by the ATGpr score was not applicable, selected was a clone having longer 5'-end by assembling the 5'-end sequence, 3'-end sequence, and human ESTs. For assembling, the Sequencher™ (Hitachi Soft Engineering) was used. When even the selection by assembling failed, all the clones were judged to be full-length.

25 As a result, 3690 clones were the clones that have the maximal ATGpr1 score higher than 0.3. On the other hand, 477 clones were the clones that have the maximal ATGpr1 score not more than 0.3, and the maximal ATGpr2 score higher than 0.3. The number of the clones having the highest scores in both the ATGpr1 and ATGpr2, while the scores were not more than 0.3, were 30 97. The number of the clones which were not selected by the ATGpr scores, but were selected by assembling the 5'-end sequence, 3'-end sequence, and human ESTs, were 117. The clones that have the score in both the ATGpr1 and ATGpr2 not more than 0.3, but were selected because the cluster comprises a single clone, were 1166. In the clones, at least either of the 5'-end or 3'-end sequence was not identical to any of human ESTs. Some clones were selected because the 35 cluster comprises a single clone, or by assembling, in which there is no ATG codon (9 clones: HEMBA1001960, HEMBA106569, HEMBB1001454, NT2RP2002839, NT2RP2005325, NT2RP2006323, PLACE1004506, PLACE1005526, and THYRO1001177). The sequences that do not contain the ATG codon were considered to be corresponding to the 5'-UTR. Although the clones do not have the scores in the ATGpr1 and ATGpr2, the clones were yet judged to be full-length according to the fullness ratio, as shown in Table 4, 5, 6, 7, and 8. The above clones that were finally judged to be full-length were classified into 11 groups according to the 45 following criteria.

Group (1): 1516 clones

50 Among the 3690 clones having the maximal ATGpr1 score higher than 0.3, the following 1516 clones were having high fullness ratio and a novel clone, in which at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of human ESTs.

55 HEMBA1000046, HEMBA1000050, HEMBA1000129, HEMBA1000150, HEMBA1000158, HEMBA1000193, HEMBA1000201, HEMBA1000216, HEMBA1000227, HEMBA1000288, HEMBA1000290, HEMBA1000303, HEMBA1000304, HEMBA1000369, HEMBA1000392, HEMBA1000396, HEMBA1000488, HEMBA1000505, HEMBA1000508, HEMBA1000534,

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HEMBA1000542, HEMBA1000594, HEMBA1000637, HEMBA1000 657, HEMBA1000752,
HEMBA1000867, HEMBA1000869, HEMBA1000872, HEMBA1000910, HEMBA100 0918,
HEMBA1000919, HEMBA1000942, HEMBA1000968, HEMBA1000975, HEMBA1000986,
5 HEMBA10 01022, HEMBA1001043, HEMBA1001052, HEMBA1001080, HEMBA1001085,
HEMBA1001109, HEMBA1 001140, HEMBA1001174, HEMBA1001235, HEMBA1001286,
HEMBA1001302, HEMBA1001398, HEMBA 1001407, HEMBA1001415, HEMBA1001446,
HEMBA1001476, HEMBA1001497, HEMBA1001510, HEMB A1001533, HEMBA1001570,
10 HEMBA1001581, HEMBA1001635, HEMBA1001640, HEMBA1001647, HEM BA1001661,
HEMBA1001731, HEMBA1001744, HEMBA1001746, HEMBA1001800, HEMBA1001815, HE
MBA1001822, HEMBA1001866, HEMBA1001896, HEMBA1001910, HEMBA1001987,
HEMBA1002018, HEMBA1002035, HEMBA1002049, HEMBA1002092, HEMBA1002119,
15 HEMBA1002125 , HEMBA1002161, HEMBA1002177, HEMBA1002189, HEMBA1002191,
HEMBA1002199, HEMBA100222 9, HEMBA1002237, HEMBA1002265, HEMBA1002363,
HEMBA1002417, HEMBA1002419, HEMBA10024 30, HEMBA1002439, HEMBA1002477,
HEMBA1002503, HEMBA1002508, HEMBA1002515, HEMBA1002 547, HEMBA1002688,
20 HEMBA1002703, HEMBA1002746, HEMBA1002750, HEMBA1002850, HEMBA100 2973,
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 THYRO1000381, THYRO100038 7, THYRO1000395, THYRO1000501, THYRO1000505,
 25 THYRO1000637, THYRO1000666, THYRO10006 76, THYRO1000684, THYRO1000734,
 THYRO1000787, THYRO1000916, THYRO1000934, THYRO1000 951, THYRO1001033,
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 30 THYRO10 01605, THYRO1001637, THYRO1001656, THYRO1001738, THYRO1001809,
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 Y79AA1000627, Y79AA1000824, Y79AA 1000827, Y79AA1000850, Y79AA1000962,
 Y79AA1000976, Y79AA1001068, Y79AA1001145, Y79A A1001185, Y79AA1001233,
 35 Y79AA1001299, Y79AA1001391, Y79AA1001541, Y79AA1001555, Y79 AA1001581,
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 Y 79AA1002431, Y79AA1002433, Y79AA1002472, Y79AA1002482,
 40

Group (2): 377 clones

Among the 3690 clones, the following 377 clones were full-length, and a novel clone, in which
 the number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher
 45 and not more than 5.

HEMBA1000156, HEMBA1000231, HEMBA1000244, HEMBA1000302, HEMBA1000523,
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 50 HEMBA1001310, HEMBA1001377, HEMBA10013 88, HEMBA1001413, HEMBA1001455,
 HEMBA1001579, HEMBA1001702, HEMBA1001781, HEMBA1001 804, HEMBA1001819,
 HEMBA1001864, HEMBA1001869, HEMBA1001912, HEMBA1001915, HEMBA100 2084,
 HEMBA1002102, HEMBA1002212, HEMBA1002495, HEMBA1002513, HEMBA1002863,
 55 HEMBA10 02935, HEMBA1002970, HEMBA1002971, HEMBA1002997, HEMBA1002999,
 HEMBA1003035, HEMBA1 003041, HEMBA1003433, HEMBA1003568, HEMBA1003680,
 HEMBA1003692, HEMBA1003804, HEMBA 1003893, HEMBA1003953, HEMBA1004097,

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HEMBA1004207, HEMBA1004502, HEMBA1004560, HEMB A1004638, HEMBA1004693,
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5 MBA1006445, HEMBA1006535, HEMBA1006566, HEMBA1006877, HEMBA1006936,
HEMBA1007178, HEMBA1007251, HEMBA1007267,
HEMBB1000030, HEMBB1000215, HEMBB1000226, HEMBB1000449, HEMBB1000789,
HEMBB1000975, HEMBB1001153, HEMBB1001175, HEMBB1001234, HEMBB1001387,
10 HEMBB1001905, HEMBB100190 6, HEMBB1002300, HEMBB1002383, HEMBB1002489,
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MAMMA1000841, MAMMA1001021, MAMMA1001041 , MAMMA1001105, MAMMA1001139,
MAMMA1001198, MAMMA1001730, MAMMA1001837, MAMMA100219 8, MAMMA1002209,
15 MAMMA1002219, MAMMA1002292, MAMMA1002297, MAMMA1002637, MAMMA10026 50,
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NT2RM1001008, NT2RM2001896, NT2RM4000024, NT2RM4000061, NT2RM4000155,
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20 NT2RM4001032, NT2RM400104 7, NT2RM4001116, NT2RM4001140, NT2RM4001200,
NT2RM4001384, NT2RM4001412, NT2RM40014 83, NT2RM4001715, NT2RM4001783,
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25 NT2RP2000006, NT2RP2000008, NT2RP2000054, NT2RP2000079, NT2RP2000097,
NT2RP2000126 NT2RP2000224, NT2RP2000274, NT2RP2000764, NT2RP2000812,
NT2RP2000819, NT2RP200084 5, NT2RP2000863, NT2RP2000880, NT2RP2001127,
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30 NT2RP2001597, NT2RP2001721, NT2RP2001907, NT2RP2002 046, NT2RP2002312,
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35 NT2RP2003543, NT2RP2 003781, NT2RP2004066, NT2RP2004316, NT2RP2004392,
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NT2RP2006565,
40 NT2RP3000527, NT2RP3000562, NT2RP3000590, NT2RP3000596, NT2RP3000599,
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OVARC1001167, OVARC100117 0, OVARC1001188, OVARC1001271, OVARC1001329,
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PLACE1001570, PLACE1001602, PLACE10016 10, PLACE1001632, PLACE1001989,
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 5 PLACE1003669, PLACE1003723, PLACE1003738, PLACE1003762, PLACE1003783,
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 PLACE1004510, PLACE1 004645, PLACE1004672, PLACE1004868,
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 10 PLACE1005966 , PLACE1006157, PLACE1006225, PLACE1006239, PLACE1006248,
 PLACE1006445, PLACE100653 1, PLACE1006626, PLACE1006731, PLACE1006901,
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 15 PLACE1008129, PLACE1008309, PLACE1008401, PLACE1008402, PLACE100 8532,
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 PLACE1011982, PLACE4000049, PLACE4000300, PLA CE4000558,
 THYRO1000368, THYRO1000662, THYRO1000712, THYRO1000783, THYRO1000952,
 25 THYRO1000988 THYRO1001661, THYRO1001854, Y79AA1000037, Y79AA1000059,
 Y79AA1000985, Y79AA100110, 5, Y79AA1001177, Y79AA1001211, Y79AA1001281,
 Y79AA1001533, Y79AA1001923, Y79AA10020 83, Y79AA1002204, Y79AA1002407,

30 Group (3): 1797 clones

Among the 3690 clones, the following 1797 clones were full-length, and novel clones, in which
 the number of the identical human ESTs for the 5'-end sequence is not more than 20 (except
 clones in which at least either of the 5'-end or 3'-end sequence, or both of them are not
 35 identical to any of human ESTs, and clones in which the number of the identical human ESTs for
 both the 5'-end and 3'-end sequences is 1 or higher and not more than 5).

HEMBA1000005, HEMBA1000012, HEMBA1000020, HEMBA1000030, HEMBA1000076,
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 HEMBA1000686, HEMBA1000719, HEMBA1000727, HEMBA1000817, HEMBA100 0851,
 45 HEMBA1000946, HEMBA1001008, HEMBA1001059, HEMBA1001088, HEMBA1001122,
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 HEMBA1001351, HEMBA1 001361, HEMBA1001387, HEMBA1001405, HEMBA1001450,
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 HEMBA1002150, HEMBA1002151, HEMBA1002215, HEMBA1002241, HEMBA1002267,
 55 HEMBA1002341, *HEMBA1002458, HEMBA1002460, HEMBA1002462, HEMBA1002469,
 HEMBA1002475, HEMBA100254 2, HEMBA1002569, HEMBA1002583, HEMBA1002609,
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5 HEMBA10 03179, HEMBA1003222, HEMBA1003281, HEMBA1003286, HEMBA1003369,
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10 HEMBA1003679, HEMBA1003684, HEMBA1003690, HEMBA1003711, HEM BA1003729,
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15 HEMBA1004168 , HEMBA1004202, HEMBA1004203, HEMBA1004227, HEMBA1004248,
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25 HEMBA1005472, HEMBA1005474, HEMBA 1005475, HEMBA1005513, HEMBA1005528,
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30 HEMBA1006155, HEMBA1006235, HEMBA1006248, HEMBA1006283, HEMBA1006284,
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55 MAMMA1000738, MAMMA1000824, MAMMA10008 59, MAMMA1001008, MAMMA1001059,
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5 MAMMA1002485, MAMMA1002530, MAMMA 1002585, MAMMA1002598, MAMMA1002619,
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MAMMA1003057, MAMMA1003113, MAMMA1003146, MAMMA1003166,
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15 NT2RM1000280, NT2RM1000300, NT2RM1000341, NT2RM1000 355, NT2RM1000365,
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20 NT2RM1000741, NT2RM1 000746, NT2RM1000770, NT2RM1000780, NT2RM1000781,
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 PLACE3000197, PLACE3000226, PLACE30002 42, PLACE3000339, PLACE3000353,
 5 PLACE3000413, PLACE3000477, PLACE4000009, PLACE4000 034, PLACE4000089,
 PLACE4000106, PLACE4000259, PLACE4000269, PLACE4000326, PLACE400 0369,
 PLACE4000431, PLACE4000445, PLACE4000581, PLACE4000593, PLACE4000650, PLACE40
 00670,
 10 SKNMC1000046, SKNMC1000050, SKNMC1000091, THYRO1000017, THYRO1000040,
 THYRO1000121 , THYRO1000173, THYRO1000197, THYRO1000199, THYRO1000206,
 THYRO1000242, THYRO100027 0, THYRO1000288, THYRO1000320, THYRO1000327,
 THYRO1000358, THYRO1000394, THYRO10004 01, THYRO1000488, THYRO1000502,
 15 THYRO1000569, THYRO1000570, THYRO1000585, THYRO1000 605, THYRO1000715,
 THYRO1000756, THYRO1000777, THYRO1000829, THYRO1000855, THYRO100 0926,
 THYRO1000983, THYRO1000984, THYRO1001120, THYRO1001134, THYRO1001173,
 THYRO10 01204, THYRO1001271, THYRO1001287, THYRO1001313, THYRO1001347,
 20 THYRO1001363, THYRO1 001405, THYRO1001406, THYRO1001537, THYRO1001584,
 THYRO1001671, THYRO1001703, THYRO 1001721, THYRO1001793,
 VESEN1000122, Y79AA1000013, Y79AA1000181, Y79AA1000202, Y79AA1000214,
 Y79AA1000230 , Y79AA1000231, Y79AA1000258, Y79AA1000313, Y79AA1000328,
 25 Y79AA1000342, Y79AA100036 8, Y79AA1000420, Y79AA1000469, Y79AA1000480,
 Y79AA1000539, Y79AA1000540, Y79AA10005 60, Y79AA1000574, Y79AA1000589,
 Y79AA1000705, Y79AA1000734, Y79AA1000748, Y79AA1000 752, Y79AA1000774,
 Y79AA1000782, Y79AA1000784, Y79AA1000794, Y79AA1000800, Y79AA100 0833,
 30 Y79AA1000966, Y79AA1000968, Y79AA1001023, Y79AA1001041, Y79AA1001048, Y79AA10
 01077, Y79AA1001078, Y79AA1001216, Y79AA1001228, Y79AA1001236, Y79AA1001312,
 Y79AA1 001323, Y79AA1001394, Y79AA1001402, Y79AA1001493, Y79AA1001511,
 Y79AA1001548, Y79AA 1001585, Y79AA1001603, Y79AA1001647, Y79AA1001665,
 35 Y79AA1001679, Y79AA1001696, Y79A A1001705, Y79AA1001711, Y79AA1001781,
 Y79AA1001805, Y79AA1001827, Y79AA1001963, Y79 AA1002027, Y79AA1002089,
 Y79AA1002093, Y79AA1002125, Y79AA1002208, Y79AA1002209, Y7 9AA1002210,
 Y79AA1002234, Y79AA1002258, Y79AA1002307, Y79AA1002311, Y79AA1002351, Y
 40 79AA1002416, Y79AA1002487,

Group (4): 453 clones

Among the 1857 clones having the maximal ATGpr1 score not more than 0.3 (including the 9
 45 clones whose 5'-end sequence does not contain the ATG codon), the following 453 clones were
 judged to be full-length since their ATGpr2 score was 0.3 or higher (Table 11). The clones were
 novel clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any
 of human ESTs.

50 HEMBA1000180, HEMBA1000280, HEMBA1000282, HEMBA1000333, HEMBA1000351,
 HEMBA1000357 , HEMBA1000376, HEMBA1000469, HEMBA1000504, HEMBA1000519,
 HEMBA1000545, HEMBA100055 7, HEMBA1000575, HEMBA1000726, HEMBA1000822,
 HEMBA1000934, HEMBA1000943, HEMBA10009 60, HEMBA1000972, HEMBA1001020,
 55 HEMBA1001051, HEMBA1001060, HEMBA1001071, HEMBA1001 208, HEMBA1001319,
 HEMBA1001383, HEMBA1001411, HEMBA1001433, HEMBA1001435, HEMBA100 1478,
 HEMBA1001522, HEMBA1001636, HEMBA1001651, HEMBA1001658, HEMBA1001709,

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HEMBA10 01745, HEMBA1001791, HEMBA1001835, HEMBA1001844, HEMBA1001888,
HEMBA1001940, HEMBA1 001962, HEMBA1002022, HEMBA1002185, HEMBA1002348,
HEMBA1002621, HEMBA1002645, HEMBA 1002661, HEMBA1002728, HEMBA1002921,
5 HEMBA1002924, HEMBA1002934, HEMBA1002968, HEMBA1003037, HEMBA1003071,
HEMBA1003166, HEMBA1003202, HEMBA1003204, HEMBA1003220, HEMBA1003229,
HEMBA1003276, HEMBA1003296, HEMBA1003373, HEMBA1003531, HEMBA100364 0,
HEMBA1003856, HEMBA1003926, HEMBA1003942, HEMBA1003987, HEMBA1004024,
10 HEMBA10042 67, HEMBA1004323, HEMBA1004433, HEMBA1004577, HEMBA1004730,
HEMBA1004778, HEMBA1004 803, HEMBA1004807, HEMBA1004880, HEMBA1004900,
HEMBA1004983, HEMBA1005123, HEMBA100 5241, HEMBA1005311, HEMBA1005318,
HEMBA1005353, HEMBA1005374, HEMBA1005447, HEMBA10 05588, HEMBA1005593,
15 HEMBA1005606, HEMBA1005679, HEMBA1005894, HEMBA1005911, HEMBA1 006036,
HEMBA1006124, HEMBA1006253, HEMBA1006259, HEMBA1006364, HEMBA1006380, HEMBA
1006426, HEMBA1006562, HEMBA1006597, HEMBA1006639, HEMBA1006653,
HEMBA1006696, HEMB A1006744, HEMBA1006824, HEMBA1006949, HEMBA1007078,
20 HEMBA1007129, HEMBA1007147, HEM BA1007206, HEMBA1007279, HEMBA1007327,
HEMBB1000005, HEMBB1000055, HEMBB1000144, HEMBB1000258, HEMBB1000318,
HEMBB1000335, HEMBB1000354, HEMBB1000374, HEMBB1000402, HEMBB1000404,
HEMBB1000480, HEMBB100049 3, HEMBB1000554, HEMBB1000573, HEMBB1000649,
25 HEMBB1000652, HEMBB1000709, HEMBB10007 49, HEMBB1000790, HEMBB1000827,
HEMBB1000831, HEMBB1000893, HEMBB1001004, HEMBB1001 008, HEMBB1001047,
HEMBB1001315, HEMBB1001317, HEMBB1001326, HEMBB1001367, HEMBB100 1424,
HEMBB1001436, HEMBB1001458, HEMBB1001535, HEMBB1001565, HEMBB1001747,
30 HEMBB10 01749, HEMBB1001797, HEMBB1001836, HEMBB1001863, HEMBB1001875,
HEMBB1001911, HEMBB1 001922, HEMBB1001925, HEMBB1001944, HEMBB1001983,
HEMBB1001996, HEMBB1001997, HEMBB 1002092, HEMBB1002247, HEMBB1002266,
HEMBB1002387, HEMBB1002425, HEMBB1002458, HEMB B1002522, HEMBB1002534,
35 HEMBB1002582, HEMBB1002596, HEMBB1002617, HEMBB1002702, MAMMA1000043,
MAMMA1000092, MAMMA1000129, MAMMA1000198, MAMMA1000221, MAMMA1000307 ,
MAMMA1000331, MAMMA1000360, MAMMA1000402, MAMMA1000414, MAMMA1000500,
MAMMA100052 2, MAMMA1000576, MAMMA1000594, MAMMA1000597, MAMMA1000720,
40 MAMMA1000775, MAMMA10007 78, MAMMA1000798, MAMMA1000862, MAMMA1000876,
MAMMA1000931, MAMMA1000940, MAMMA1000 941, MAMMA1000975, MAMMA1001038,
MAMMA1001186, MAMMA1001220, MAMMA1001256, MAMMA100 1274, MAMMA1001341,
MAMMA1001397, MAMMA1001420, MAMMA1001547, MAMMA1001670, MAMMA10 01679,
45 MAMMA1001711, MAMMA1001745, MAMMA1001760, MAMMA1001769, MAMMA1001815, MAMMA1
001907, MAMMA1002056, MAMMA1002078, MAMMA1002093, MAMMA1002125, MAMMA1002132,
MAMMA 1002145, MAMMA1002250, MAMMA1002311, MAMMA1002411, MAMMA1002498,
MAMMA1002571, MAMM A1002701, MAMMA1002727, MAMMA1002728, MAMMA1002746,
50 MAMMA1002764, MAMMA1002765, MAM MA1002820, MAMMA1002830, MAMMA1002909,
MAMMA1002941, MAMMA1002973, MAMMA1003004, MA MMA1003007, MAMMA1003039,
MAMMA1003089,
NT2RM4000086, NT2RM4000265, NT2RM4000414, NT2RM4000779, NT2RM4000855,
55 NT2RM4001160 , NT2RM4001313, NT2RM4001437, NT2RM4001754, NT2RM4001953,
NT2RM4001984, NT2RP200007 7, NT2RP2000183, NT2RP2000420, NT2RP2000678,
NT2RP2000715, NT2RP2000842, NT2RP20009 70, NT2RP2001149, NT2RP2001226,

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NT2RP2001295, NT2RP2001347, NT2RP2001569, NT2RP2001 663, NT2RP2001936,
 NT2RP2002041, NT2RP2002172, NT2RP2002219, NT2RP2002316, NT2RP200 2546,
 NT2RP2002591, NT2RP2002643, NT2RP2002741, NT2RP2002750, NT2RP2002778,
 5 NT2RP20 02857, NT2RP2003000, NT2RP2003073, NT2RP2003237, NT2RP2003394,
 NT2RP2003517, NT2RP2 003668, NT2RP2003988, NT2RP2004232, NT2RP2004523,
 NT2RP2004736, NT2RP2004767, NT2RP 2004775, NT2RP2004961, NT2RP2004962,
 NT2RP2004982, NT2RP2005407, NT2RP2005726, NT2R P2006258, NT2RP2006261,
 10 NT2RP2006454, NT2RP3000055, NT2RP3000233, NT2RP3000341, NT2 RP3000418,
 NT2RP3000451, NT2RP3000561, NT2RP3000582, NT2RP3001281, NT2RP3001339, NT
 2RP3001340, NT2RP3001383, NT2RP3001432, NT2RP3001580, NT2RP3001589,
 NT2RP3002004, N T2RP3002173, NT2RP3003133, NT2RP3003346, NT2RP3003403,
 15 NT2RP3003576, NT2RP3003625, NT2RP3003665, NT2RP3003800, NT2RP3003828,
 NT2RP3004070, NT2RP3004470, NT2RP4000023 , NT2RP4000035, NT2RP4000102,
 NT2RP4000167, NT2RP4000214, NT2RP4000218, NT2RP400042 4, NT2RP4000915,
 NT2RP4002075,
 20 OVARC1000085, OVARC1000092, OVARC1000145, OVARC1000414, OVARC1000496,
 OVARC1000526 , OVARC1000948, OVARC1001011, OVARC1001600, OVARC1001805,
 OVARC1001813, OVARC100184 6,
 PLACE1000540, PLACE1000599, PLACE1001088, PLACE1001377, PLACE1001440,
 25 PLACE1001517 , PLACE1001672, PLACE1001756, PLACE1002157, PLACE1002205,
 PLACE1002259, PLACE100239 9, PLACE1002477, PLACE1002583, PLACE1002968,
 PLACE1003238, PLACE1003566, PLACE10035 93, PLACE1003618, PLACE1004274,
 PLACE1004716, PLACE1004773, PLACE1004815, PLACE1004 979, PLACE1005052,
 30 PLACE1005086, PLACE1005128, PLACE1005176, PLACE1005467, PLACE100 5639,
 PLACE1005850, PLACE1006003, PLACE1006017, PLACE1006288, PLACE1006371, PLACE10
 06629, PLACE1007478, PLACE1008330, PLACE1008584, PLACE1008851, PLACE1008941,
 PLACE1 009039, PLACE1009493, PLACE1009539, PLACE1009637, PLACE1009947,
 35 PLACE1010231, PLACE 1010562, PLACE1010579, PLACE1010739, PLACE1010802,
 PLACE1010896, PLACE1011032, PLAC E1011185, PLACE1011452, PLACE1011465,
 PLACE1011520, PLACE1011567, PLACE1011719, PLA CE2000011, PLACE2000017,
 PLACE2000061, PLACE2000187, PLACE2000216, PLACE2000335, PL ACE2000347,
 40 PLACE2000366, PLACE2000394, PLACE2000398, PLACE2000425, PLACE2000450, P
 LACE2000477, PLACE3000119, PLACE3000207, PLACE3000230, PLACE3000271,
 PLACE3000373, PLACE3000399, PLACE3000401, PLACE3000406, PLACE4000247,
 PLACE4000320, PLACE4000367 , PLACE4000401,
 45 THYRO1000111, THYRO1000187, THYRO1000484, THYRO1000596, THYRO1000625,
 THYRO1000815 , THYRO1000865, THYRO1001003, THYRO1001031, THYRO1001133,
 THYRO1001401, THYRO100142 6, THYRO1001434, THYRO1001559, THYRO1001570,
 THYRO1001706, THYRO1001746, THYRO10017 72, THYRO1001907, Y79AA1000033,
 50 Y79AA1000346, Y79AA1000805, Y79AA1001692, Y79AA1002 220,

Group (5): 24 clones

55 The following 24 clones having low score in the ATGpr1 were judged to be full-length since
 their ATGpr2 score was 0.3 or higher (Table 11). The clones were novel clones, in which the
 number of the identical human ESTs for both the 5'-end and 3'-end sequences is 1 or higher and
 not more than 5.

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HEMBA1000622, HEMBA1000749, HEMBA1000876, HEMBA1001226, HEMBA1001391,
HEMBA1002742 , HEMBA1003908, HEMBA1004000, HEMBB1000336, MAMMA1000356,
MAMMA1000883, MAMMA100159 0, NT2RP2000289, NT2RP2001467, PLACE1002853,
5 PLACE1003420, PLACE1004836, PLACE10049 13, PLACE1006795, PLACE1008181,
PLACE1008715, PLACE4000344, THYRO1000129, THYRO1001 321,

Group (6): 65 clones

10 The following 65 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were
judged to be full-length, since both scores were still the maximum in a cluster compared with
those of the other clones(at least 2 clones or more) in the same cluster. The clones were novel
clones, in which at least either of the 5'-end or 3'-end sequence is not identical to any of
15 human ESTs.

HEMBA1000604, HEMBA1000673, HEMBA1001024, HEMBA1001026, HEMBA1001734,
HEMBA1001784 , HEMBA1001808, HEMBA1003902, HEMBA1004164, HEMBA1004909,
HEMBA1005232, HEMBA100557 7, HEMBA1006461, HEMBA1006695, HEMBB1001119,
20 HEMBB1001337, HEMBB1001536, HEMBB10018 68, HEMBB1002045, HEMBB1002579,
MAMMA1000444, MAMMA1000761, MAMMA1000943, MAMMA1001 820, MAMMA1002360,
NT2RM4000366, NT2RM4001856, NT2RM4002390, NT2RP2000108, NT2RP2000257,
NT2RP2001506, NT2RP2002047, NT2RP2002066, NT2RP2002475, NT2RP2004400,
25 NT2RP2004587, NT2RP200528 9, NT2RP2005694, NT2RP3001898, NT2RP3003264,
NT2RP3003433, NT2RP3003842, OVARC10012 40, PLACE1001323, PLACE1002227,
PLACE1002500, PLACE1002604, PLACE1002772, PLACE1003 478, PLACE1004681,
PLACE1005108, PLACE1005932, PLACE1006318, PLACE1006368, PLACE100 6506,
30 PLACE1006904, PLACE1007557, PLACE1007877, PLACE1009048, PLACE1011109, PLACE10
11643, PLACE4000548, THYRO1000279, Y79AA1000410, Y79AA1002103,

Group (7): 32 clones

35 The following 32 clones having low scores in both the ATGpr1 and ATGpr2 (Table 11) were
judged to be full-length, since both scores were still the maximum in a cluster compared with
those of the other clones(at least 2 clones or more) in the same cluster. The clones were
novel clones, in which the number of the identical human ESTs for both the 5'-end and 3'-end
40 sequences is 1 or higher and not more than 5.

HEMBA1000251, HEMBA1001803, HEMBA1001918, HEMBA1002257, HEMBA1003064,
HEMBA1003714 , HEMBA1004405, HEMBA1005508, HEMBB1000054, HEMBB1001142,,
MAMMA1000175, MAMMA100116 2, MAMMA1002972, NT2RM4000425, NT2RP2004512,
45 NT2RP2005531, NT2RP2005942, NT2RP20065 54, NT2RP3001007, NT2RP3001318,
OVARC1000017, OVARC1000068, OVARC1000486, PLACE1001 705, PLACE1002319,
PLACE1007743, PLACE1007829, PLACE1008630, PLACE1009925, PLACE101 1492,
PLACE1011749, THYRO1000793,

50 The following 117 clones, selected by assembling the sequence of the other clones in the
same cluster and human ESTs, have high fullness ratio. The clones were classified into the
following group (8) and (9).

HEMBA1001323, HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204,
55 HEMBA1002349, HEMBA1002538, HEMBA1003309, HEMBA1003939, HEMBA1004015,
HEMBA1004295, HEMBA100467 2, HEMBA1004865, HEMBA1005251, HEMBA1006158,
HEMBA1006676, HEMBA1006779, HEMBA10072 88, HEMBB1000218, HEMBB1000272,

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HEMBB1000399, HEMBB1000491, HEMBB1000996, HEMBB1001 114, HEMBB1001850,
HEMBB1002015, MAMMA1000287, MAMMA1001683, MAMMA1001686, MAMMA100 2612,
NT2RM2000609, NT2RM4002438, NT2RM4002567, NT2RP2000270, NT2RP2000758,
5 NT2RP2001290, NT2RP2001526, NT2RP2002124, NT2RP2002736, NT2RP2002753,
NT2RP2003456, NT2RP200372 7, NT2RP2003871, NT2RP2003968, NT2RP2004321,
NT2RP2004412, NT2RP2004580, NT2RP20052 93, NT2RP2005476, NT2RP2005753,
NT2RP2005815, NT2RP2005841, NT2RP2005857, NT2RP2006 393, NT2RP2006467,
10 NT2RP3000109, NT2RP3000449, NT2RP3001245, NT2RP3001634, NT2RP300 2056,
NT2RP3002810, NT2RP3002955, NT2RP3003032, NT2RP3003138, NT2RP3003500,
NT2RP30 03819, NT2RP4000078, NT2RP4000515, NT2RP4000517, NT2RP4001407,
NT2RP4001889, NT2RP4 002905,
15 OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395,
PLACE1001691 , PLACE1001746, PLACE1001748, PLACE1001845, PLACE1002066,
PLACE1003373, PLACE100390 0, PLACE1004118, PLACE1004256, PLACE1004284,
PLACE1004336, PLACE1004506, PLACE10049 34, PLACE1005077, PLACE1005111,
20 PLACE1005409, PLACE1005730, PLACE1006076, PLACE1006 360, PLACE1006470,
PLACE1006760, PLACE1006867, PLACE1007045, PLACE1007111, PLACE100 7807,
PLACE1008080, PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008426, PLACE10
08621, PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, PLACE3000276,
25 THYRO1 000805, THYRO1001365, THYRO1001673, Y79AA1001848,

Group (8): 36 clones

Among the 117 clones described above, the following 36 clones were novel clones, in which
30 at least either of the 5'-end or 3'-end sequence, or both of them were not identical to any of
human ESTs.

HEMBA1001330, HEMBA1001712, HEMBA1001820, HEMBA1002204, HEMBA1002349,
HEMBA1003939 , HEMBA1004295, HEMBA1004865, HEMBA1006779, HEMBB1000218,
35 HEMBB1000491, HEMBB100099 6, HEMBB1001114, MAMMA1000287, MAMMA1001686,
MAMMA1002612, NT2RP2002736, NT2RP20037 27, NT2RP2004580, NT2RP2005841,
NT2RP2006393, PLACE1002066, PLACE1003373, PLACE1003 900, PLACE1004118,
PLACE1004336, PLACE1004506, PLACE1004934, PLACE1005409, PLACE100 5730,
40 PLACE1006470, PLACE1008080, PLACE3000276, THYRO1000805, THYRO1001365,
THYRO10 01673,

Group (9): 81 clones

45 Among the 117 clones described above, the following 81 clones were the clones in which the
number of the identical human ESTs for the 5'-end sequence is not more than 20 (except clones
in which at least either of the 5'-end or 3'-end sequence, or both of them are not identical to
any of human ESTs, and clones in which the number of the identical human ESTs for both the 5'-
50 end and 3'-end sequences is 1 or higher and not more than 5).

HEMBA1001323, HEMBA1002538, HEMBA1003309, HEMBA1004015, HEMBA1004672,
HEMBA1005251 , HEMBA1006158, HEMBA1006676, HEMBA1007288, HEMBB1000272,
HEMBB1000399, HEMBB100185 0, HEMBB1002015, MAMMA1001683, NT2RM2000609,
55 NT2RM4002438, NT2RM4002567, NT2RP20002 70, NT2RP2000758, NT2RP2001290,
NT2RP2001526, NT2RP2002124, NT2RP2002753, NT2RP2003 456, NT2RP2003871,
NT2RP2003968, NT2RP2004321, NT2RP2004412, NT2RP2005293, NT2RP200 5476,

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NT2RP2005753, NT2RP2005815, NT2RP2005857, NT2RP2006467, NT2RP3000109,
 NT2RP30 00449, NT2RP3001245, NT2RP3001634, NT2RP3002056, NT2RP3002810,
 NT2RP3002955, NT2RP3 003032, NT2RP3003138, NT2RP3003500, NT2RP3003819,
 5 NT2RP4000078, NT2RP4000515, NT2RP 4000517, NT2RP4001407, NT2RP4001889,
 NT2RP4002905,
 OVARC1000071, OVARC1001883, PLACE1000292, PLACE1001007, PLACE1001395,
 PLACE1001691 , PLACE1001746, PLACE1001748, PLACE1001845, PLACE1004256,
 10 PLACE1004284, PLACE100507 7, PLACE1005111, PLACE1006076, PLACE1006360,
 PLACE1006760, PLACE1006867, PLACE10070 45, PLACE1007111, PLACE1007807,
 PLACE1008244, PLACE1008369, PLACE1008405, PLACE1008 426, PLACE1008621,
 PLACE1009020, PLACE1009621, PLACE1010089, PLACE1010270, Y79AA100 1848,

15

Group (10): 938 clones

The following 938 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be
 full-length according to the fullness ratio shown in Table 4. The clones were novel clones, in
 20 which at least the 5'-end sequence was not identical to any of human ESTs.

HEMBA1000042, HEMBA1000213, HEMBA1000264, HEMBA1000355, HEMBA1000366,
 HEMBA1000411 , HEMBA1000422, HEMBA1000428, HEMBA1000434, HEMBA1000442,
 HEMBA1000464, HEMBA100054 0, HEMBA1000563, HEMBA1000569, HEMBA1000655,
 25 HEMBA1000662, HEMBA1000702, HEMBA10007 05, HEMBA1000722, HEMBA1000747,
 HEMBA1000769, HEMBA1000773, HEMBA1000774, HEMBA1000 827, HEMBA1000843,
 HEMBA1000852, HEMBA1000870, HEMBA1000908, HEMBA1000985, HEMBA100 0991,
 HEMBA1001017, HEMBA1001019, HEMBA1001094, HEMBA1001121, HEMBA1001172,
 30 HEMBA10 01265, HEMBA1001327, HEMBA1001375, HEMBA1001432, HEMBA1001454,
 HEMBA1001463, HEMBA1 001515, HEMBA1001517, HEMBA1001557, HEMBA1001566,
 HEMBA1001585, HEMBA1001589, HEMBA 1001608, HEMBA1001675, HEMBA1001678,
 HEMBA1001681, HEMBA1001718, HEMBA1001761, HEMB A1001945, HEMBA1001960,
 35 HEMBA1001964, HEMBA1001991,
 HEMBA1002003, HEMBA1002008, HEMBA1002039, HEMBA1002100, HEMBA1002113,
 HEMBA1002139 , HEMBA1002144, HEMBA1002153, HEMBA1002226, HEMBA1002253,
 HEMBA1002270, HEMBA100232 1, HEMBA1002328, HEMBA1002337, HEMBA1002381,
 40 HEMBA1002486, HEMBA1002552, HEMBA10025 55, HEMBA1002558, HEMBA1002561,
 HEMBA1002590, HEMBA1002628, HEMBA1002629, HEMBA1002 651, HEMBA1002659,
 HEMBA1002666, HEMBA1002678, HEMBA1002712, HEMBA1002716, HEMBA100 2730,
 HEMBA1002748, HEMBA1002780, HEMBA1002801, HEMBA1002826, HEMBA1002833,
 45 HEMBA10 02886, HEMBA1002896, HEMBA1003083, HEMBA1003086, HEMBA1003098,
 HEMBA1003133, HEMBA1 003197, HEMBA1003212, HEMBA1003273, HEMBA1003278,
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 30 Y79AA1000538, Y79AA1000802, Y79AA1000969, Y79AA1001061, Y79AA1 001167,
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Group (11): 228 clones

35 The following 228 clones having low scores in both the ATGpr1 and ATGpr2 were judged to be
 full-length according to the fullness ratio shown in Table 7. The clones were a novel clone, in
 which at least the 3'-end sequence was not identical to any of human ESTs.
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40 THYRO1001595, THYRO 1001745.

EXAMPLE 12

45

Homology search using the 5'-end and 3'-end sequences of the selected clones.

50 The 5' -end sequences of the selected 5547 clones were used for the homology search of the
SwissProt, and both the 5' -end 3' -end sequences were used for the search of the GenBank and
UniGene (ref. the result of the search of the SwissProt, GenBank (except ESTs and STSs), and
UniGene (Human) was attached).

55 Each search result is shown in the last part of this SPECIFICATION by arranging each item in
the following format.

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	5'-end sequence	3'-end sequence
Swiss-Prot	Homology search result 1	-----
GenBank	Homology search result 2	Homology search result 3
UniGene	Homology search result 4	Homology search result 5

5

10 According to the top hit data, at least 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth. Among the clones predicted belonging to any of the categories, 1001 clones were estimated to have a relatively high homology with the known proteins or genes in the same category. In addition, 429 clones were estimated to have a relatively low homology with the known proteins in the same category.

15 Herein, the term "relatively high homology" is defined as having 60% or more identity and the P-value 10^{-10} or less in comparison with known sequences in the SwissProt database, or 64% or more identity and the P-value 10^{-15} or less in comparison with those in the GenBank and UniGene databases (see the attached list). Also, the term "relatively low homology" is defined as not fulfilling the requirements to be "relatively high homology", but still having the scores, 25% or more identity and the P-value 10^{-6} or less, using the sequence having 55 nucleotides or more, in comparison with known sequences in the SwissProt database (see the attached list). The P-value is a score obtained statistically by taking into account the probability of occurrence of the similarity between two sequences. In general, the smaller P-value reflects the higher similarity (Altschul S.F., Gish W., Miller W., Myers E.W., and Lipman D.J. (1990) "Basic local alignment search tool" J.Mol. Biol., 215: 403-410; Gish W., and States D.J. (1993) "Identification of protein coding regions by database similarity search" Nature Genet. 3: 266-272).

20 The clones predicted to encode a protein in the category of secretory protein or membrane protein have the keywords, "signal", "transmembrane", "membrane", "extracellular matrix", "receptor", "G-protein coupled receptor", "ionic channel", "voltage-gated channel", "calcium channel", "cell adhesion", "collagen", or "connective tissue", or descriptions from which the clone can be predicted to be a secretory or membrane protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

25 The clones predicted to encode a protein in the category of glycoprotein have the keywords, "glycoprotein", or descriptions from which the clone can be predicted to be a glycoprotein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

30 The clones predicted to encode a protein in the category of proteins associated with signal transduction have the keywords, "serine/threonine-protein kinase", "tyrosine-protein kinase", "SH3 domain", or "WD repeat", or descriptions from which the clone can be predicted to be a protein associated with signal transduction (such as "ADP-ribosylation factor"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or

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UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with transcription have the keywords, "transcription regulation", "zinc finger", or "homeobox", or descriptions from which the clone can be predicted to be a protein associated with transcription, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with diseases are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein that is deposited in the Online Mendelian Inheritance in Man (OMIM) database, which is a database of human genes and diseases, or the top hit data has descriptions from which the clone can be predicted to be a protein associated with diseases.

The clones predicted to encode a protein in the category of enzyme or proteins associated with metabolism are the clones in which the top hit data of the SwissProt using the 5'-end sequence, or the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence is a gene or protein with E.C.No. (Enzyme commission number), or the top hit data has descriptions from which the clone can be predicted to be an enzyme or protein associated with metabolism (such as "metabolism", "oxidoreductase", or "lipid").

The clones predicted to encode a protein in the category of proteins associated with cell division or cell proliferation have the keywords, "cell division", "cell cycle", "mitosis", or "chromosomal protein", or descriptions from which the clone can be predicted to be a protein associated with cell division or cell proliferation (such as "histone", "cell growth", or "apoptosis"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with cytoskeleton have the keywords, "structural protein", "cytoskeleton", "actin-binding", or "microtubules", or descriptions from which the clone can be predicted to be a protein associated with cytoskeleton, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with RNA synthesis include the above clones predicted to be a protein associated with transcription, and also the clones which have the keywords, "RNA splicing", or "RNA processing", or descriptions from which the clone can be predicted to be a protein associated with RNA synthesis (such as "RNA helicase", "polyadenylation", or "RNA transport"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of nuclear protein include the above clones predicted to be a protein associated with transcription, and also the clones which have the keyword, "nuclear protein", or descriptions from which the clone can be predicted to be a nuclear protein, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

The clones predicted to encode a protein in the category of proteins associated with protein synthesis or transport have the keywords, "translation regulation", "protein biosynthesis", "amino-acid biosynthesis", "ribosomal protein", or "protein transport", or descriptions from which the clone can be predicted to be a protein associated with protein synthesis or transport

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(such as "signal recognition particle", "ubiquitin", "proteosome", or "protease"), in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

5 The clones predicted to encode a protein in the category of proteins associated with cellular defense have the keywords, "heat shock", "chaperone", "DNA repair", or "DNA damage", or descriptions from which the clone can be predicted to be a protein associated with cellular defense, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

10 The clones predicted to encode a protein in the category of proteins associated with development or growth have the keyword, "developmental protein", or descriptions from which the clone can be predicted to be a protein associated with development or growth, in the top hit data of the SwissProt using the 5'-end sequence, or in the top hit data of the GenBank or UniGene using the 5'-end sequence and 3'-end sequence.

15 The following 1430 clones were predicted to encode a protein belonging to any of the categories, secretory or membrane protein, glycoprotein, protein associated with signal transduction, protein associated with transcription, protein associated with diseases, enzyme or protein associated with metabolism, protein associated with cell division or cell proliferation, protein associated with cytoskeleton, protein associated with RNA synthesis, nuclear protein, protein associated with protein synthesis or transport, protein associated with cellular defense, or protein associated with development or growth.

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5	NT2RP2006598,	NT2RP3000031,	NT2RP3000050,	NT2RP3000080,	NT2RP3000085,
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10	NT2RP3001081,	NT2RP3001120,	NT2RP3001140,	NT2RP3001155,	NT2RP3001268,
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15	NT2RP3001764,	NT2RP3001792,	NT2RP3001799,	NT2RP3001855,	NT2RP3002004,
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40	NT2RP4001498,	NT2RP4001529,	NT2RP4001574,	NT2RP4001644,	NT2RP4001753,
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45	OVARC1000440,	OVARC1000465,	OVARC1000479,	OVARC1000520,	OVARC1000649,
	OVARC1000679,	OVARC1000682,	OVARC1000722,	OVARC1000771,	OVARC1000834,
	OVARC1000850,	OVARC1000862,	OVARC1000883,	OVARC1000945,	OVARC1000996,
	OVARC1001055,	OVARC1001068,	OVARC1001107,	OVARC1001113,	OVARC1001154,
50	OVARC1001244,	OVARC1001261,	OVARC1001296,	OVARC1001342,	OVARC1001357,
	OVARC1001372,	OVARC1001381,	OVARC1001417,	OVARC1001419,	OVARC1001496,
	OVARC1001506,	OVARC1001542,	OVARC1001577,	OVARC1001668,	OVARC1001702,
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55	OVARC1001861,	OVARC1001900,	OVARC1001901,	OVARC1001943,	OVARC1001949,
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20	PLACE1005968,	PLACE1006011,	PLACE1006037,	PLACE1006040,	PLACE1006119,
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	PLACE1006385,	PLACE1006414,	PLACE1006438,	PLACE1006482,	PLACE1006488,
	PLACE1006531,	PLACE1006615,	PLACE1006754,	PLACE1006958,	PLACE1006962,
25	PLACE1007105,	PLACE1007239,	PLACE1007257,	PLACE1007346,	PLACE1007409,
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30	PLACE1008627,	PLACE1008643,	PLACE1008650,	PLACE1008696,	PLACE1008790,
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	PLACE1009099,	PLACE1009113,	PLACE1009200,	PLACE1009230,	PLACE1009246,
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40	PLACE1011041,	PLACE1011046,	PLACE1011054,	PLACE1011057,	PLACE1011109,
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	PLACE1011576,	PLACE1011664,	PLACE1011896,	PLACE1011923,	PLACE2000021,
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45	PLACE2000341,	PLACE2000359,	PLACE2000404,	PLACE2000438,	PLACE3000004,
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50	PLACE4000269,	PLACE4000320,	PLACE4000654,	SKNMC1000050,	THYRO1000017,
	THYRO1000026,	THYRO1000121,	THYRO1000173,	THYRO1000186,	THYRO1000197,
	THYRO1000242,	THYRO1000288,	THYRO1000320,	THYRO1000327,	THYRO1000358,
	THYRO1000387,	THYRO1000471,	THYRO1000501,	THYRO1000585,	THYRO1000666,
55	THYRO1000783,	THYRO1000926,	THYRO1000974,	THYRO1001100,	THYRO1001121,
	THYRO1001189,	THYRO1001406,	THYRO1001458,	THYRO1001595,	THYRO1001605,
	THYRO1001617,	THYRO1001671,	Y79AA1000037,	Y79AA1000059,	Y79AA1000214,

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Y79AA1000346, Y79AA1000349, Y79AA1000469, Y79AA1000560, Y79AA1000627,
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5 Y79AA1001299, Y79AA1001391, Y79AA1001533, Y79AA1001548, Y79AA1001679,
Y79AA1001827, Y79AA1001866, Y79AA1002093, Y79AA1002258, Y79AA1002361,
Y79AA1002416,

10 The following 429 clones were estimated to have a relatively low homology with the known
proteins in the same category.

HEMBA1000012, HEMBA1000185, HEMBA1000488, HEMBA1000491, HEMBA1000569,
HEMBA1000752,
15 HEMBA1001137, HEMBA1001407, HEMBA1001476, HEMBA1001744, HEMBA1001800,
HEMBA1001804, HEMBA1001809, HEMBA1001847,
20 HEMBA1002035, HEMBA1002102, HEMBA1002150, HEMBA1002212, HEMBA1002495,
HEMBA1002555, HEMBA1002609, HEMBA1002688, HEMBA1002939,

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	HEMBA1003071,	HEMBA1003077,	HEMBA1003136,	HEMBA1003179,	HEMBA1003235,
	HEMBA1003291,	HEMBA1003418,			
5	HEMBA1003568,	HEMBA1003598,	HEMBA1003680,	HEMBA1003684,	HEMBA1003836,
	HEMBA1003953,				
	HEMBA1004276,	HEMBA1004408,	HEMBA1004669,	HEMBA1004734,	
10	HEMBA1005475,	HEMBA1005595,	HEMBA1005737,	HEMBA1005815,	HEMBA1005931,
	HEMBA1006347,	HEMBA1006474,	HEMBA1006521,	HEMBA1006562,	HEMBA1006652,
15	HEMBA1006737,	HEMBA1006914,			
	HEMBA1007045,	HEMBA1007121,	HEMBA1007300,	HEMBA1007301,	
20	HEMBB1000119,	HEMBB1000217,	HEMBB1000317,	HEMBB1000632,	HEMBB1000789,
	HEMBB1001011,	HEMBB1001177,	HEMBB1001234,	HEMBB1001282,	HEMBB1001288,
25	HEMBB1002050,	HEMBB1002092,			
	MAMMA1000085,	MAMMA1000672,	MAMMA1000841,	MAMMA1000897,	MAMMA1001008,
	MAMMA1001030,	MAMMA1001041,			
30	MAMMA1002143,	MAMMA1002573,	MAMMA1002619,	MAMMA1002636,	MAMMA1002650,
	MAMMA1002671,	MAMMA1002881,	MAMMA1002937,		
35	NT2RM1000118,	NT2RM1000153,	NT2RM1000186,	NT2RM1000187,	NT2RM1000377,
	NT2RM1000648,	NT2RM1000666,	NT2RM1000691,	NT2RM1000770,	NT2RM1000772,
	NT2RM1000850,	NT2RM1000882,	NT2RM1000898,		
40	NT2RM1001059,	NT2RM1001072,	NT2RM1001139,		
	NT2RM2000363,	NT2RM2000371,	NT2RM2000402,	NT2RM2000577,	NT2RM2000599,
45	NT2RM2000623,	NT2RM2000714,			
	NT2RM2001131,	NT2RM2001221,	NT2RM2001324,	NT2RM2001345,	
50	NT2RM2001588,	NT2RM2001635,	NT2RM2001670,	NT2RM2001700,	NT2RM2001730,
	NT2RM2001785,	NT2RM2001797,	NT2RM2001823,	NT2RM2001936,	NT2RM2001989,
	NT2RM2002580,				
55	NT2RM4000030,	NT2RM4000085,	NT2RM4000155,	NT2RM4000156,	NT2RM4000169,
	NT2RM4000191,	NT2RM4000215,	NT2RM4000354,	NT2RM4000421,	NT2RM4000496,
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	NT2RM4001032,	NT2RM4001140,	NT2RM4001316,	NT2RM4001340,	NT2RM4001410,
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5	NT2RM4001611,	NT2RM4001629,	NT2RM4001746,	NT2RM4001776,	NT2RM4001783,
	NT2RM4001930,	NT2RM4001979,	NT2RM4001987,		
10	NT2RM4002062,	NT2RM4002145,	NT2RM4002189,	NT2RM4002226,	NT2RM4002409,
	NT2RM4002527,	NT2RM4002571,	NT2RM4002623,		
15	NT2RP1000111,	NT2RP1000130,	NT2RP1000333,	NT2RP1000348,	NT2RP1000363,
	NT2RP1000460,	NT2RP1000470,	NT2RP1000493,		
20	NT2RP1000547,	NT2RP1000609,	NT2RP1001033,	NT2RP1001080,	NT2RP1001313,
	NT2RP1001543,				
	NT2RP2000006,	NT2RP2000133,	NT2RP2000161,	NT2RP2000183,	NT2RP2000257,
	NT2RP2000448,				
25	NT2RP2000710,	NT2RP2000764,	NT2RP2000812,	NT2RP2000932,	NT2RP2001127,
	NT2RP2001174,	NT2RP2001839,	NT2RP2001900,		
30	NT2RP2002025,	NT2RP2002058,	NT2RP2002185,	NT2RP2002442,	NT2RP2002595,
	NT2RP2002618,	NT2RP2002710,	NT2RP2002980,		
35	NT2RP2003125,	NT2RP2003277,	NT2RP2003286,	NT2RP2003293,	NT2RP2003506,
	NT2RP2003564,	NT2RP2003706,			
40	NT2RP2004098,	NT2RP2004187,	NT2RP2004568,	NT2RP2004791,	NT2RP2005022,
	NT2RP2005037,	NT2RP2005038,	NT2RP2005204,	NT2RP2005344,	NT2RP2005465,
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50	NT2RP3001216,	NT2RP3001274,	NT2RP3001355,	NT2RP3001399,	NT2RP3001407,
	NT2RP3001426,	NT2RP3001427,			
	NT2RP3001587,	NT2RP3001708,	NT2RP3002056,	NT2RP3002273,	NT2RP3002377,
	NT2RP3002399,	NT2RP3002663,	NT2RP3002785,	NT2RP3002909,	
55	NT2RP3003061,	NT2RP3003500,	NT2RP3003672,	NT2RP3003701,	NT2RP3003716,
	NT2RP3003825,	NT2RP3003831,			

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5 NT2RP4000210, NT2RP4000212, NT2RP4000259, NT2RP4000312, NT2RP4000370,
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10 NT2RP4001041, NT2RP4001095, NT2RP4001122, NT2RP4001126, NT2RP4001148,
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15 NT2RP4001551, NT2RP4001592, NT2RP4001638, NT2RP4001725, NT2RP4001790,
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20 NT2RP5003477, NT2RP5003522, NT2RP5003524,

25 OVARC1000004, OVARC1000087, OVARC1000139, OVARC1000309, OVARC1000543,
OVARC1000746, OVARC1000846, OVARC1000876, OVARC1000885, OVARC1000912,

OVARC1001180, OVARC1001329, OVARC1001476, OVARC1001555, OVARC1001610,
OVARC1001762, OVARC1001880, OVARC1001942, OVARC1002050, OVARC1002138,

30 PLACE1000066, PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000583,
PLACE1000863,

35 PLACE1001387, PLACE1001632, PLACE1001692, PLACE1001989,

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40 PLACE1003190, PLACE1003258, PLACE1003420, PLACE1003493, PLACE1003605,
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45 PLACE1004197, PLACE1004428, PLACE1004471, PLACE1004629, PLACE1004751,
PLACE1004902,

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50 PLACE1006157, PLACE1006469, PLACE1006731,

PLACE1007238, PLACE1007375, PLACE1007488, PLACE1007544, PLACE1007598,
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5 PLACE1010083, PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010194,
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10 PLACE2000034, PLACE2000164, PLACE2000274, PLACE2000399, PLACE2000411,
PLACE2000458,

15 PLACE3000148, PLACE3000156, PLACE3000242, PLACE3000322, PLACE3000353,
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20 PLACE4000009, PLACE4000014, PLACE4000259, PLACE4000431, PLACE4000522,
PLACE4000558, PLACE4000581, PLACE4000590, PLACE4000612,

25 SKNMC1000011,

THYRO1000072, THYRO1000852, THYRO1000934, THYRO1000951,

Y79AA1000258, Y79AA1000368, Y79AA1000539, Y79AA1000589, Y79AA1000962;
Y79AA1001048, Y79AA1001233, Y79AA1001394, Y79AA1001581, Y79AA1001613,
Y79AA1001692, Y79AA1001848, Y79AA1001874, Y79AA1001963,

30 Y79AA1002027, Y79AA1002139, Y79AA1002208, Y79AA1002209, Y79AA1002472,
Y79AA1002482,

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(1) Among the 1430 clones, the following 259 clones were predicted to encode a protein in the category of secretory protein or membrane protein (including the clones belonging to plural categories).

40 HEMBA1000005, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001351,
HEMBA1001407, HEMBA1001476, HEMBA1001569, HEMBA1001678, HEMBA1001804,
HEMBA1002150, HEMBA100254 7, HEMBA1002555, HEMBA1002688, HEMBA1002716,
45 HEMBA1002999, HEMBA1003071, HEMBA10030 77, HEMBA1003538, HEMBA1003598,
HEMBA1003690, HEMBA1004207, HEMBA1004356, HEMBA1004 389, HEMBA1004756,
HEMBA1005338, HEMBA1005367, HEMBA1005576, HEMBA1005699, HEMBA100 5963,
HEMBA1005990, HEMBA1006310, HEMBA1006344, HEMBA1006562, HEMBA1006976,
50 HEMBA10 07045, HEMBA1007301, HEMBB1000037, HEMBB1000119, HEMBB1000317,
HEMBB1000530, HEMBB1 000915, HEMBB1001112, HEMBB1001119, HEMBB1001151,
HEMBB1001282, HEMBB1001331, HEMBB 1002042, HEMBB1002092, HEMBB1002193,
55 HEMBB1002600, MAMMA1000103, MAMMA1000424, MAMM A1000672, MAMMA1000734,
MAMMA1000897, MAMMA1001008, MAMMA1001030, MAMMA1001041, MAM MA1001075,
MAMMA1001080, MAMMA1001751, MAMMA1001754, MAMMA1002143, MAMMA1002219, MA

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 5 NT2RM1001139, NT2RM2000374, NT2RM2000402 , NT2RM2000422, NT2RM2000566,
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 10 NT2RM4000433, NT2RM4000795, NT2RM4001032, NT2RM4001054, NT2RM4001410,
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 15 NT2RP1000782, NT2RP1000856, NT2RP1001247, NT2RP1001313, NT2RP1001 546,
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 NT2RP200 1991, NT2RP2002025, NT2RP2002193, NT2RP2002256, NT2RP2002312,
 NT2RP2002479, NT2RP20 02504, NT2RP2003433, NT2RP2003706, NT2RP2003760,
 20 NT2RP2004194, NT2RP2004655, NT2RP2 005020, NT2RP2005344, NT2RP2005465,
 NT2RP2005752, NT2RP2005753, NT2RP2005835, NT2RP 2005933, NT2RP2006275,
 NT2RP2006565, NT2RP2006571, NT2RP3000324, NT2RP3000739, NT2R P3000919,
 NT2RP3001140, NT2RP3001355, NT2RP3001676, NT2RP3001708, NT2RP3001727, NT2
 25 RP3002659, NT2RP3003059, NT2RP3003101, NT2RP3003203, NT2RP3003212,
 NT2RP3003242, NT 2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003918,
 NT2RP3004207, NT2RP3004253, N T2RP4000008, NT2RP4000212, NT2RP4000243,
 NT2RP4000417, NT2RP4000878, NT2RP4000907, NT2RP4000925, NT2RP4000928,
 30 NT2RP4001079, NT2RP4001117, NT2RP4001150, NT2RP4001174 , NT2RP4001313,
 NT2RP4001315, NT2RP4001345, NT2RP4001372, NT2RP4001574, NT2RP400182 3,
 NT2RP4001966, NT2RP5003524, OVARC1000060, OVARC1000326, OVARC1000543,
 OVARC10006 82, OVARC1000722, OVARC1000912, OVARC1001055, OVARC1001154,
 35 OVARC1001261,
 OVARC1001329, OVARC1001419, OVARC1001506, OVARC1001542, OVARC1001610,
 OVARC1001713 , OVARC1001802, OVARC1001943, PLACE1000611, PLACE1001092,
 PLACE1001136, PLACE100129 4, PLACE1002437, PLACE1002500, PLACE1002722,
 40 PLACE1002782, PLACE1002816, PLACE10034 20, PLACE1003493, PLACE1003596,
 PLACE1004104, PLACE1004197, PLACE1004203, PLACE1004 277, PLACE1004629,
 PLACE1004751, PLACE1005494, PLACE1005804, PLACE1005890, PLACE100 6157,
 PLACE1007409, PLACE1007852, PLACE1008044, PLACE1008273, PLACE1008309,
 45 PLACE10 08603, PLACE1008643, PLACE1009659, PLACE1009670, PLACE1009845,
 PLACE1009861, PLACE1 011371, PLACE1011492, PLACE1011896, PLACE2000034,
 PLACE2000341, PLACE2000399, PLACE 2000458, PLACE3000020, PLACE3000322,
 PLACE3000353, PLACE4000052, PLACE4000269, PLAC E4000522, PLACE4000581,
 50 THYRO1000783, Y79AA1000258, Y79AA1000346, Y79AA1001874,

(2) The following 111 clones were predicted to encode a protein in the category of
 glycoprotein (including the clones belonging to plural categories).

55 HEMBA1000752, HEMBA1001017, HEMBA1001059, HEMBA1001071, HEMBA1001302,
 HEMBA1002150 , HEMBA1002547, HEMBA1002555, HEMBA1003077, HEMBA1003538,
 HEMBA1003598, HEMBA100386 6, HEMBA1004356, HEMBA1005338, HEMBA1005576,

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HEMBA1005699, HEMBA1006562, HEMBA10069 76, HEMBA1007301, HEMBB1000317,
HEMBB1000530, HEMBB1001119, HEMBB1002092, HEMBB1002 193, MAMMA1000672,
MAMMA1000897, MAMMA1001030, MAMMA1001388, MAMMA1001771, MAMMA100 2485,
5 MAMMA1002636, MAMMA1002938, NT2RM1000648, NT2RM2000374, NT2RM2000407,
NT2RM20 00422, NT2RM2000623, NT2RM2001499, NT2RM2001588, NT2RM2001839,
NT2RM2001930, NT2RM4 000156, NT2RM4000233, NT2RM4001410, NT2RM4001987,
NT2RM4002145, NT2RM4002189, NT2RM 4002194, NT2RM4002558, NT2RM4002571,
10 NT2RP1000856, NT2RP1001247, NT2RP2000056, NT2R P2001991, NT2RP2002025,
NT2RP2002325, NT2RP2002385, NT2RP2003706, NT2RP2005933, NT2 RP3001140,
NT2RP3003242, NT2RP3003672, NT2RP3003701, NT2RP3003716, NT2RP3003914, NT
2RP3004253, NT2RP4000212, NT2RP4000417, NT2RP4000925, NT2RP4001149,
15 NT2RP4001150, N T2RP4001219, NT2RP4001345, NT2RP4001372, NT2RP5003522,
NT2RP5003524, OVARC1000543, OVARC1000682, OVARC1000722, OVARC1001055,
OVARC1001154, OVARC1001506, OVARC1001713 PLACE1002437, PLACE1002722,
PLACE1003258, PLACE1003493, PLACE1004197, PLACE100475 1, PLACE1005698,
20 PLACE1005804, PLACE1006157, PLACE1006754, PLACE1008643, PLACE10090 94,
PLACE1009861, PLACE1011371, PLACE2000034, PLACE2000062, PLACE2000399,
PLACE2000458, PLACE3000009, PLACE3000020, PLACE3000353, PLACE3000373,
PLACE4000052 , PLACE4000230, PLACE4000522, PLACE4000581, THYRO1000852,
25 Y79AA1001874,

(3) The following 147 clones were predicted to encode a protein in the category of proteins
associated with signal transduction (including the clones belonging to plural categories).
30 HEMBA1000030, HEMBA1000185, HEMBA1000303, HEMBA1000459, HEMBA1000491,
HEMBA1000657, HEMBA1000991, HEMBA1001174, HEMBA1001387, HEMBA1001822,
HEMBA1001921, HEMBA100221 2, HEMBA1002341, HEMBA1002417, HEMBA1002810,
HEMBA1002896, HEMBA1003291, HEMBA10033 14, HEMBA1003560, HEMBA1003615,
35 HEMBA1003621, HEMBA1003805, HEMBA1004286, HEMBA1004 604, HEMBA1006173,
HEMBA1006540, HEMBA1006973, HEMBA1007174, HEMBB1000632, HEMBB100 0781,
HEMBB1001051, HEMBB1001177, HEMBB1001234, HEMBB1001294, HEMBB1001384,
HEMBB10 02193, HEMBB1002477, HEMBB1002635, MAMMA1001305, MAMMA1002699,
40 MAMMA1002842, MAMMA1 003057, MAMMA1003113, NT2RM1000118, NT2RM1000186,
NT2RM1000772, NT2RM1000850, NT2RM 1001072, NT2RM2000124, NT2RM2000612,
NT2RM2001065, NT2RM2001221, NT2RM2001345, NT2R M2001652, NT2RM2001983,
NT2RM2002109, NT2RM2002128, NT2RM4000327, NT2RM4000354, NT2 RM4000798,
45 NT2RM4001203, NT2RM4001411, NT2RM4001412, NT2RM4001582, NT2RM4001629, NT
2RM4001758, NT2RM4002226, NT2RP1000018, NT2RP1000112, NT2RP1000701,
NT2RP1000825, N T2RP1001395, NT2RP1001410, NT2RP1001457, NT2RP1001482,
NT2RP2002058, NT2RP2002710, NT2RP2003702, NT2RP2003912, NT2RP2004232,
50 NT2RP2004768, NT2RP2005022, NT2RP2005620 , NT2RP2005890, NT2RP3000299,
NT2RP3000403, NT2RP3000742, NT2RP3000845, NT2RP300176 4, NT2RP3002004,
NT2RP3002785, NT2RP3002909, NT2RP3003230, NT2RP3003411, NT2RP30034 64,
NT2RP3003800, NT2RP3004475, NT2RP3004534, NT2RP4000147, NT2RP4000376,
55 NT2RP4001122, NT2RP4001375, NT2RP4001644, NT2RP4001725, NT2RP4001760,
NT2RP4001849, NT2RP4001927, NT2RP4002408, NT2RP5003477, OVARC1000437,
OVARC1000465, OVARC100064 9, OVARC1000945, OVARC1001476, OVARC1001861,

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PLACE1001377, PLACE1001384, PLACE10013 87, PLACE1002493, PLACE1002591,
PLACE1002685, PLACE1003353, PLACE1004128, PLACE1004 918, PLACE1005502,
PLACE1005739, PLACE1005968, PLACE1006385, PLACE1007238, PLACE100 7375,
5 PLACE1007488, PLACE1008244, PLACE1008650, PLACE1009319, PLACE1009468,
PLACE10 10083, PLACE1010942, PLACE1011041, PLACE1011046, PLACE1011923,
PLACE2000164, PLACE3 000145, PLACE3000350, PLACE3000475, THYRO1001595,
Y79AA1000059, Y79AA1000966,

10

(4) The following 230 clones were predicted to encode a protein in the category of proteins associated with transcription (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000851,
15 HEMBA1001137 , HEMBA1001510, HEMBA1001579, HEMBA1001800, HEMBA1001809,
HEMBA1001819, HEMBA100184 7, HEMBA1002035, HEMBA1002092, HEMBA1002569,
HEMBA1002609, HEMBA1003545, HEMBA10035 68, HEMBA1003684, HEMBA1003760,
HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004 353, HEMBA1004479,
20 HEMBA1004758, HEMBA1005359, HEMBA1005528, HEMBA1005548, HEMBA100 5931,
HEMBA1006253, HEMBA1006278, HEMBA1006359, HEMBA1006559, HEMBB1000250,
HEMBB10 00789, HEMBB1001011, HEMBB1001314, HEMBB1001482, HEMBB1001908,
HEMBB1002134, HEMBB1 002217, MAMMA1000155, MAMMA1000183, MAMMA1000388,
25 MAMMA1001633, MAMMA1001820, MAMMA 1001837, MAMMA1002650, MAMMA1002937,
NT2RM1000055, NT2RM1000666, NT2RM1000691, NT2R M1000894, NT2RM1001092,
NT2RM2000013, NT2RM2000735, NT2RM2001035, NT2RM2001575, NT2 RM2001605,
NT2RM2001670, NT2RM2001771, NT2RM2001797, NT2RM2002580, NT2RM4000024, NT
30 2RM4000104, NT2RM4000191, NT2RM4000496, NT2RM4000531, NT2RM4000734,
NT2RM4000751, N T2RM4000996, NT2RM4001140, NT2RM4001200, NT2RM4001483,
NT2RM4001592, NT2RM4001746, NT2RM4001783, NT2RM4001823, NT2RM4001828,
NT2RM4001858, NT2RM4001979, NT2RP1000111 , NT2RP1000333, NT2RP1000574,
35 NT2RP1000721, NT2RP1000860, NT2RP2000008, NT2RP200013 3, NT2RP2000297,
NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2002252, NT2RP20025 03,
NT2RP2002591, NT2RP2003125, NT2RP2003228, NT2RP2003293, NT2RP2003564,
NT2RP2003714, NT2RP2004013, NT2RP2004187, NT2RP2004961, NT2RP2005003,
40 NT2RP2005037 , NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722,
NT2RP2006238, NT2RP200646 4, NT2RP3000050, NT2RP3000397, NT2RP3000512,
NT2RP3000527, NT2RP3000590, NT2RP30006 32, NT2RP3001057, NT2RP3001120,
NT2RP3001155, NT2RP3001268, NT2RP3001398, NT2RP3001 399, NT2RP3001671,
45 NT2RP3001672, NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP300 1855,
NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193,
NT2RP30 03251, NT2RP3003327, NT2RP3004258, NT2RP3004566, NT2RP3004572,
NT2RP3004594, NT2RP3 004617, NT2RP4000078, NT2RP4000210, NT2RP4000398,
50 NT2RP4000449, NT2RP4000787, NT2RP 4000865, NT2RP4000997, NT2RP4001029,
NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2R P4001551, NT2RP4001638,
NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078, OVA RC1000479,
OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577, OVARC1001949, PL
55 ACE1000066, PLACE1000133, PLACE1000583, PLACE1000596, PLACE1000706,
PLACE1001118, P LACE1001238, PLACE1001304, PLACE1001602, PLACE1001632,
PLACE1002450, PLACE1002532, PLACE1002834, PLACE1003302, PLACE1003605,

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PLACE1003738, PLACE1003885, PLACE1004471 , PLACE1004510, PLACE1004681,
 PLACE1006414, PLACE1006438, PLACE1006482, PLACE100723 9, PLACE1007346,
 PLACE1007544, PLACE1007598, PLACE1007955, PLACE1007969, PLACE10086 27,
 5 PLACE1008941, PLACE1009099, PLACE1009246, PLACE1009398, PLACE1010261,
 PLACE1010491, PLACE1010702, PLACE1010771, PLACE1010870, PLACE1011576,
 PLACE2000072 , PLACE2000359, PLACE4000128, PLACE4000156, PLACE4000259,
 PLACE4000431, THYRO100012 1, THYRO1000242, THYRO1000501, THYRO1000585,
 10 THYRO1001100, THYRO1001189, Y79AA10000 37, Y79AA1000627, Y79AA1000705,
 Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001 533, Y79AA1001613,
 Y79AA1001848, Y79AA1001866, Y79AA1002093, Y79AA1002472, Y79AA100 2482,

15 (5) The following 436 clones were predicted to encode a protein in the category of proteins
 associated with diseases (including the clones belonging to plural categories).

HEMBA1000158, HEMBA1000216, HEMBA1000523, HEMBA1000561, HEMBA1000569,
 HEMBA1000673 , HEMBA1000972, HEMBA1001017, HEMBA1001019, HEMBA1001059,
 20 HEMBA1001071, HEMBA100108 8, HEMBA1001123, HEMBA1001407, HEMBA1001569,
 HEMBA1001570, HEMBA1001672, HEMBA10020 35, HEMBA1002160, HEMBA1002162,
 HEMBA1002547, HEMBA1002939, HEMBA1003077, HEMBA1003 418, HEMBA1003433,
 HEMBA1003538, HEMBA1003555, HEMBA1003568, HEMBA1003569, HEMBA100 3581,
 25 HEMBA1003720, HEMBA1003760, HEMBA1004168, HEMBA1004248, HEMBA1004276,
 HEMBA10 04354, HEMBA1004356, HEMBA1004479, HEMBA1004534, HEMBA1004669,
 HEMBA1004752, HEMBA1 004753, HEMBA1004807, HEMBA1005293, HEMBA1005331,
 HEMBA1005359, HEMBA1005367, HEMBA 1005423, HEMBA1005443, HEMBA1005475,
 30 HEMBA1005528, HEMBA1005576, HEMBA1005581, HEMB A1005679, HEMBA1005699,
 HEMBA1005732, HEMBA1005931, HEMBA1006173, HEMBA1006474, HEM BA1006562,
 HEMBA1006648, HEMBA1006652, HEMBA1006737, HEMBA1006807, HEMBA1006976, HE
 MBA1007078, HEMBA1007121, HEMBA1007243, HEMBA1007301, HEMBB1000264,
 35 HEMBB1000637, H EMBB1000684, HEMBB1000693, HEMBB1000915, HEMBB1000927,
 HEMBB1001011, HEMBB1001051, HEMBB1001068, HEMBB1001102, HEMBB1001119,
 HEMBB1001133, HEMBB1001177, HEMBB1001802, HEMBB1001908, HEMBB1001922,
 HEMBB1001967, HEMBB1002050, HEMBB1002193, HEMBB100221 7, HEMBB1002358,
 40 HEMBB1002635, HEMBB1002683, MAMMA1000009, MAMMA1000092, MAMMA10001 03,
 MAMMA1000173, MAMMA1000731, MAMMA1000897, MAMMA1000956, MAMMA1001021,
 MAMMA1001041, MAMMA1001105, MAMMA1001198, MAMMA1001305, MAMMA1001576,
 MAMMA1001633 , MAMMA1002140, MAMMA1002170, MAMMA1002198, MAMMA1002268,
 45 MAMMA1002352, MAMMA100239 2, MAMMA1002485, MAMMA1002530, MAMMA1002573,
 MAMMA1002636, MAMMA1002858, MAMMA10028 69, MAMMA1002881, MAMMA1002937,
 MAMMA1003047, MAMMA1003099, MAMMA1003146, MAMMA1003 166, NT2RM1000035,
 NT2RM1000153, NT2RM1000257, NT2RM1000318, NT2RM1000377, NT2RM100 0394,
 50 NT2RM1000555, NT2RM1000691, NT2RM1000725, NT2RM1000770, NT2RM1000826,
 NT2RM10 00850, NT2RM1001059, NT2RM1001072, NT2RM1001082, NT2RM1001092,
 NT2RM2000363, NT2RM2 000374, NT2RM2000594, NT2RM2000599, NT2RM2000714,
 NT2RM2000740, NT2RM2000821, NT2RM 2001035, NT2RM2001499, NT2RM2001575,
 55 NT2RM2001605, NT2RM2001664, NT2RM2001670, NT2R M2001803, NT2RM2001823,
 NT2RM2001839, NT2RM4000085, NT2RM4000139, NT2RM4000155, NT2 RM4000290,
 NT2RM4000689, NT2RM4000895, NT2RM4001320, NT2RM4001566, NT2RM4001629, NT

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2RM4001741, NT2RM4001819, NT2RM4001823, NT2RM4001865, NT2RM4001940,
NT2RM4002093, NT2RM4002146, NT2RM4002161, NT2RM4002189, NT2RM4002457,
NT2RM4002558, NT2RM4002571, NT2RP1000086, NT2RP1000376, NT2RP1000574,
5 NT2RP1000581, NT2RP1000629, NT2RP1000721, NT2RP1000733, NT2RP1000738,
NT2RP1000825, NT2RP1000833, NT2RP1000860, NT2RP1000966, NT2RP1001033,
NT2RP1001247, NT2RP2000126, NT2RP2000147, NT2RP2000233, NT2RP2000297,
NT2RP2000310, NT2RP2000414, NT2RP2000448, NT2RP2000459, NT2RP2000603,
10 NT2RP2000812, NT2RP2001127, NT2RP2001327, NT2RP2001440, NT2RP2001520,
NT2RP2001663, NT2RP2001748, NT2RP2001876, NT2RP2001898, NT2RP2002025,
NT2RP2002066, NT2RP2002259, NT2RP2002312, NT2RP2002503, NT2RP2002618,
NT2RP2003228, NT2RP2003293, NT2RP2003295, NT2RP2003517, NT2RP2003564,
15 NT2RP2003706, NT2RP2003737, NT2RP2003968, NT2RP2004013, NT2RP2004098,
NT2RP2004187, NT2RP2004316, NT2RP2004523, NT2RP2004538, NT2RP2004933,
NT2RP2005144, NT2RP2005288, NT2RP2005289, NT2RP2005325, NT2RP2005358,
NT2RP2005531, NT2RP2005773, NT2RP2006219, NT2RP3000050, NT2RP3000080,
20 NT2RP3000299, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP3001081,
NT2RP3001216, NT2RP3001268, NT2RP3001355, NT2RP3001427, NT2RP3001428,
NT2RP3001497, NT2RP3001554, NT2RP3001724, NT2RP3001764, NT2RP3001799,
NT2RP3001855, NT2RP3002045, NT2RP3002151, NT2RP3002351, NT2RP3002352,
25 NT2RP3002663, NT2RP3002818, NT2RP3002876, NT2RP3002909, NT2RP3002972, NT2RP3003061,
NT2RP3003157, NT2RP3003242, NT2RP3003282, NT2RP3003672,
NT2RP3004078, NT2RP3004209, NT2RP3004399, NT2RP3004424, NT2RP3004475,
NT2RP3004480, NT2RP3004490, NT2RP3004527, NT2RP3004578, NT2RP4000049,
30 NT2RP4000109, NT2RP4000185, NT2RP4000312, NT2RP4000367, NT2RP4000398,
NT2RP4000457, NT2RP4000855, NT2RP4000879, NT2RP4000915, NT2RP4000928,
NT2RP4001095, NT2RP4001150, NT2RP4001213, NT2RP4001483, NT2RP4001498,
NT2RP4001753, NT2RP4001838, OVARC1000014, OVARC1000114, OVARC1000139,
35 OVARC1000241, OVARC1000440, OVARC1000543, OVARC1000722, OVARC1000771,
OVARC1000834, OVARC1000850, OVARC1001113, OVARC1001244, OVARC1001296,
OVARC1001357, OVARC1001372, OVARC1001417, OVARC1001496, OVARC1001506,
OVARC1001577, OVARC1001668, OVARC1001713, OVARC1001809, OVARC1001880,
40 OVARC1001901, OVARC1001949, OVARC1002050, PLACE1000133, PLACE1000142,
PLACE1000184, PLACE1000383, PLACE1000406, PLACE1000420, PLACE1000583,
PLACE1000588, PLACE1000706, PLACE1001384, PLACE1001387, PLACE1001517,
PLACE1001602, PLACE1001634, PLACE1001771, PLACE1002046, PLACE1002437,
45 PLACE1002474, PLACE1002665, PLACE1002834, PLACE1003302, PLACE1003493,
PLACE1003704, PLACE1003888, PLACE1003903, PLACE1003968, PLACE1004197,
PLACE1004358, PLACE1004471, PLACE1004681, PLACE1004751, PLACE1004773,
PLACE1005101, PLACE1006040, PLACE1006119, PLACE1006170, PLACE1006187,
50 PLACE1006288, PLACE1006414, PLACE1006438, PLACE1006962, PLACE1007239, PLACE1007257,
PLACE1007488, PLACE1007511, PLACE1007737, PLACE1008000,
PLACE1008402, PLACE1008643, PLACE1008696, PLACE1008941, PLACE1009027,
PLACE1009200, PLACE1009230, PLACE1009298, PLACE1009319, PLACE1009444,
55 PLACE1009524, PLACE1010083, PLACE1010089, PLACE1010599, PLACE1010833,
PLACE1010856, PLACE1011054, PLACE1011057, PLACE1011116, PLACE1011229,
PLACE1011263, PLACE1011371, PLACE2000072, PLACE2000399, PLACE2000438,

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PLACE2000458, PLACE3000004, PLACE3000242, PLACE3000352, PLACE3000353,
 PLACE3000455, PLACE3000475, PLACE4000009, PLACE4000014, PLACE4000052,
 PLACE4000320, PLACE4000581, SKNMC1000050, THYRO1000026, THYRO1000173,
 5 THYRO1000186, THYRO1000320, THYRO1000327, THYRO1000387, THYRO1000471,
 THYRO1000934, THYRO1001458, THYRO1001595, THYRO1001605, THYRO1001617,
 THYRO1001671, Y79AA1000037, Y79AA1000469, Y79AA1000539, Y79AA1000560,
 Y79AA1000734, Y79AA1000985, Y79AA1001105, Y79AA1001391, Y79AA1001394,
 10 Y79AA1001548, Y79AA1001613, Y79AA1001874, Y79AA1002258, Y79AA1002416, Y79AA1002482,

(6) The following 301 clones were predicted to encode a protein in the category of enzyme or
 15 proteins associated with metabolism (including the clones belonging to plural categories).
 HEMBA1000012, HEMBA1000459, HEMBA1000852, HEMBA1001059, HEMBA1001257,
 HEMBA1001620, HEMBA1001714, HEMBA1001744, HEMBA1001896, HEMBA1002003,
 HEMBA1002212, HEMBA1002257, HEMBA1002513, HEMBA1002973, HEMBA1003046,
 20 HEMBA1003136, HEMBA1003179, HEMBA1003286, HEMBA1003291, HEMBA1003538,
 HEMBA1003680, HEMBA1004227, HEMBA1004408, HEMBA1004734, HEMBA1004795,
 HEMBA1005513, HEMBA1005737, HEMBA1005815, HEMBA1006278, HEMBA1006347,
 HEMBA1006521, HEMBA1006648, HEMBA1006877, HEMBA1006941, HEMBA1006976,
 25 HEMBA1007121, HEMBA1007243, HEMBA1007300, HEMBB1000781, HEMBB1000915,
 HEMBB1001288, HEMBB1001429, HEMBB1001443, HEMBB1001915, HEMBB1002042,
 HEMBB1002342, HEMBB1002358, HEMBB1002635, HEMBB1002683, MAMMA1000020,
 MAMMA1000085, MAMMA1000672, MAMMA1000841, MAMMA1001008, MAMMA1001139,
 30 MAMMA1001476, MAMMA1001501, MAMMA1002268, MAMMA1002530, MAMMA1002619,
 MAMMA1002671, MAMMA1002938, NT2RM1000132, NT2RM1000153, NT2RM1000256, NT2RM1000280,
 NT2RM1000377, NT2RM1000648, NT2RM1000850, NT2RM1000867,
 NT2RM1000894, NT2RM1001072, NT2RM2000013, NT2RM2000124, NT2RM2000191,
 35 NT2RM2000368, NT2RM2000371, NT2RM2000577, NT2RM2000594, NT2RM2000599,
 NT2RM2000951, NT2RM2001238, NT2RM2001664, NT2RM2001700, NT2RM2001730,
 NT2RM2001785, NT2RM2001803, NT2RM2002030, NT2RM4000024, NT2RM4000155,
 NT2RM4000344, NT2RM4000496, NT2RM4000616, NT2RM4000712, NT2RM4000895,
 40 NT2RM4001313, NT2RM4001316, NT2RM4001340, NT2RM4001444, NT2RM4001758,
 NT2RM4001819, NT2RM4001930, NT2RM4002062, NT2RM4002063, NT2RM4002409,
 NT2RM4002558, NT2RM4002571, NT2RM4002623, NT2RP1000018, NT2RP1000112,
 NT2RP1000376, NT2RP1000609, NT2RP1000833, NT2RP1000834, NT2RP1001079,
 45 NT2RP1001253, NT2RP1001361, NT2RP1001543, NT2RP2000056, NT2RP2000114,
 NT2RP2000183, NT2RP2000329, NT2RP2000422, NT2RP2000710, NT2RP2000764,
 NT2RP2000932, NT2RP2001070, NT2RP2001663, NT2RP2001839, NT2RP2001898,
 NT2RP2002256, NT2RP2002312, NT2RP2002442, NT2RP2002595, NT2RP2002618,
 50 NT2RP2002993, NT2RP2003230, NT2RP2003286, NT2RP2003506, NT2RP2003643,
 NT2RP2003706, NT2RP2003737, NT2RP2003781, NT2RP2003912, NT2RP2004232,
 NT2RP2004239, NT2RP2004768, NT2RP2004791, NT2RP2004799, NT2RP2005038,
 NT2RP2005276, NT2RP2005344, NT2RP2005457, NT2RP2005498, NT2RP2005531,
 55 NT2RP2005557, NT2RP2005690, NT2RP2005773, NT2RP2005775, NT2RP2005942,
 NT2RP2006571, NT2RP3000046, NT2RP3000085, NT2RP3000359, NT2RP3000418, NT2RP3000742,
 NT2RP3000845, NT2RP3000875, NT2RP3001274, NT2RP3001407,

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NT2RP3001495, NT2RP3002351, NT2RP3002402, NT2RP3002969, NT2RP3003301,
NT2RP3003346, NT2RP3003500, NT2RP3003800, NT2RP3003825, NT2RP3003831,
NT2RP3003914, NT2RP3004155, NT2RP3004209, NT2RP3004669, NT2RP3004670,
5 NT2RP4000259, NT2RP4000417, NT2RP4000457, NT2RP400072 4, NT2RP4000855,
NT2RP4000928, NT2RP4000997, NT2RP4001041, NT2RP4001079, NT2RP40010 95,
NT2RP4001219, NT2RP4001345, NT2RP4001375, NT2RP4001483, NT2RP4001592,
NT2RP4001644, NT2RP4001893, NT2RP4001946, NT2RP4002408, NT2RP5003500,
10 NT2RP5003522 , OVARC1000060, OVARC1000139, OVARC1000309, OVARC1000543,
OVARC1000682, OVARC100072 2, OVARC1000885, OVARC1001261, OVARC1001610,
OVARC1001713, OVARC1001762, OVARC10018 09, OVARC1001942, PLACE1000007,
PLACE1000142, PLACE1000420, PLACE1000547, PLACE1000 653, PLACE1001062,
15 PLACE1001603, PLACE1001692, PLACE1001817, PLACE1001989, PLACE100 2991,
PLACE1003100, PLACE1003709, PLACE1003885, PLACE1003888, PLACE1003903,
PLACE10 03915, PLACE1003968, PLACE1004428, PLACE1004437, PLACE1004751,
PLACE1005305, PLACE1 005477, PLACE1005656, PLACE1005763, PLACE1005804,
20 PLACE1006011, PLACE1016469, PLACE 1006731, PLACE1007729, PLACE1007958,
PLACE1008275, PLACE1008356, PLACE1008696, PLAC E1009444, PLACE1009861,
PLACE1009997, PLACE1010089, PLACE1010096, PLACE1010106, PLA CE1010152,
PLACE1010481, PLACE1011046, PLACE1011203, PLACE1011219, PLACE1011229, PL
25 ACE1011332, PLACE1011923, PLACE2000021, PLACE2000140, PLACE2000404,
PLACE2000411, P LACE3000020, PLACE3000148, PLACE3000156, PLACE3000350,
PLACE3000353, PLACE4000259, PLACE4000431, PLACE4000558, PLACE4000590,
SKNMC1000050, THYRO1000017, THYRO1000197 , THYRO1000320, THYRO1000358,
30 THYRO1000471, THYRO1000926, THYRO1000934, THYRO100095 1, THYRO1001406,
THYRO1001617, THYRO1001671, Y79AA1001048, Y79AA1001233, Y79AA10015 81,
Y79AA1001679, Y79AA1001827, Y79AA1002027, Y79AA1002209, Y79AA1002361,
Y79AA1002 416,

35

(7) The following 74 clones were predicted to encode a protein in the category of proteins associated with cell division or cell proliferation (including the clones belonging to plural categories).

40 HEMBA1001019, HEMBA1001595, HEMBA1002229, HEMBA1002363, HEMBA1003136,
HEMBA1003836 , HEMBA1004131, HEMBA1005241, HEMBB1000399, HEMBB1001175,
HEMBB1001242, MAMMA100182 0, MAMMA1003011, NT2RM1000394, NT2RM2001256,
NT2RM4000215, NT2RM4001611, NT2RM40017 14, NT2RP1000733, NT2RP1001177,
45 NT2RP2000077, NT2RP2000346, NT2RP2001397, NT2RP2003 912, NT2RP2005520,
NT2RP2005675, NT2RP2005767, NT2RP2005857, NT2RP2006464, NT2RP300 0031,
NT2RP3001155, NT2RP3001730, NT2RP3002151, NT2RP3002273, NT2RP3002399,
NT2RP30 04507, NT2RP3004578, NT2RP3004594, NT2RP4000210, NT2RP4000498,
50 NT2RP4001207, NT2RP4 001414, NT2RP4001551, OVARC1000006, OVARC1000087,
OVARC1000113, OVARC1000846, OVARC 1000876, OVARC1001068, OVARC1001107,
OVARC1001113, OVARC1002112, PLACE1000547, PLAC E1001611, PLACE1001691,
PLACE1002775, PLACE1002811, PLACE1003709, PLACE1004316, PLA CE1004674,
55 PLACE1004814, PLACE1005287, PLACE1006187, PLACE1006368, PLACE1008808, PL
ACE1008947, PLACE1009060, PLACE1010720, PLACE1010761, PLACE1010833,
PLACE1011056, P LACE3000244, Y79AA1000214, Y79AA1001236,

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(8) The following 92 clones were predicted to encode a protein in the category of proteins associated with cytoskeleton (including the clones belonging to plural categories).

5 HEMBA1000020, HEMBA1000588, HEMBA1001804, HEMBA1002102, HEMBA1002161,
HEMBA1002939 , HEMBA1003235, HEMBA1003581, HEMBA1004534, HEMBA1005009,
HEMBA1005595, HEMBA100627 2, HEMBA1006737, HEMBA1007018, HEMBB1000404,
HEMBB1001282, MAMMA1000173, MAMMA10004 29, MAMMA1001041, MAMMA1001576,
10 MAMMA1001735, MAMMA1002622, MAMMA1002637, MAMMA1003 099, MAMMA1003127,
NT2RM1000898, NT2RM1001003, NT2RM1001139, NT2RM2000691, NT2RM400 0030,
NT2RM4000167, NT2RM4000689, NT2RM4001741, NT2RM4001776, NT2RM4002109,
NT2RP10 00348, NT2RP1000460, NT2RP1000478, NT2RP1001033, NT2RP2000812,
15 NT2RP2001634, NT2RP2 001900, NT2RP2002727, NT2RP2003307, NT2RP2003604,
NT2RP2004538, NT2RP2005531, NT2RP 3000868, NT2RP3001216, NT2RP3001272,
NT2RP3002688, NT2RP3003061, NT2RP3003138, NT2R P3003230, NT2RP3003282,
NT2RP3004454, NT2RP3004569, NT2RP4001126, NT2RP4001927, OVA RC1000437,
20 OVARC1000520, OVARC1000679, OVARC1001731, OVARC1002050, PLACE1002571, PL
ACE1002591, PLACE1002655, PLACE1003669, PLACE1004777, PLACE1005287,
PLACE1006368, P LACE1007105, PLACE1010310, PLACE1010743, PLACE1010960,
PLACE1011263, PLACE2000039, PLACE2000216, PLACE2000274, PLACE3000145,
25 PLACE3000322, PLACE4000009, PLACE4000612 , THYRO1000072, THYRO1000666,
THYRO1001121, THYRO1001458, Y79AA1000368, Y79AA100083 3, Y79AA1000962,
Y79AA1000985, Y79AA1002208,

30 (9) The following 280 clones were predicted to encode a protein in the category of proteins associated with RNA synthesis (including the clones belonging to plural categories).

HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561, HEMBA1000591,
HEMBA1000851 , HEMBA1001137, HEMBA1001510, HEMBA1001579, HEMBA1001800,
35 HEMBA1001809, HEMBA100181 9, HEMBA1001847, HEMBA1002035, HEMBA1002092,
HEMBA1002569, HEMBA1002609, HEMBA10034 18, HEMBA1003545, HEMBA1003568,
HEMBA1003684, HEMBA1003760, HEMBA1003953, HEMBA1004 097, HEMBA1004321,
HEMBA1004353, HEMBA1004479, HEMBA1004669, HEMBA1004758, HEMBA100 5359,
40 HEMBA1005528, HEMBA1005548, HEMBA1005931, HEMBA1006253, HEMBA1006278,
HEMBA10 06359, HEMBA1006559, HEMBA1006639, HEMBB1000250, HEMBB1000789,
HEMBB1001011, HEMBB1 001314, HEMBB1001482, HEMBB1001908, HEMBB1002134,
HEMBB1002217, MAMMA1000155, MAMMA 1000183, MAMMA1000388, MAMMA1001059,
45 MAMMA1001633, MAMMA1001820, MAMMA1001837, MAMM A1002650, MAMMA1002937,
NT2RM1000055, NT2RM1000187, NT2RM1000666, NT2RM1000691, NT2 RM1000852,
NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735, NT2RM2001035, NT
2RM2001424, NT2RM2001575, NT2RM2001605, NT2RM2001670, NT2RM2001771,
50 NT2RM2001797, N T2RM2001989, NT2RM2002100, NT2RM2002580, NT2RM4000024,
NT2RM4000104, NT2RM4000191, NT2RM4000421, NT2RM4000471, NT2RM4000496,
NT2RM4000531, NT2RM4000734, NT2RM4000751 , NT2RM4000996, NT2RM4001140,
NT2RM4001200, NT2RM4001483, NT2RM4001592, NT2RM400174 6, NT2RM4001783,
55 NT2RM4001823, NT2RM4001828, NT2RM4001858, NT2RM4001979, NT2RM40020 93,
NT2RM4002479, NT2RP1000111, NT2RP1000272, NT2RP1000333, NT2RP1000470,
NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1001080, NT2RP2000008,

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NT2RP2000133 , NT2RP2000161, NT2RP2000297, NT2RP2000931, NT2RP2001174,
 NT2RP2001233, NT2RP200144 9, NT2RP2002099, NT2RP2002252, NT2RP2002503,
 NT2RP2002591, NT2RP2002928, NT2RP20031 25, NT2RP2003228, NT2RP2003293,
 5 NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2RP2004 187, NT2RP2004568,
 NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005126, NT2RP200 5168,
 NT2RP2005239, NT2RP2005287, NT2RP2005496, NT2RP2005539, NT2RP2005722,
 NT2RP20 05763, NT2RP2005942, NT2RP2006238, NT2RP2006464, NT2RP3000050,
 10 NT2RP3000361, NT2RP3 000397, NT2RP3000512, NT2RP3000527, NT2RP3000590,
 NT2RP3000632, NT2RP3000917, NT2RP 3001057, NT2RP3001120, NT2RP3001155,
 NT2RP3001268, NT2RP3001398, NT2RP3001399, NT2R P3001671, NT2RP3001672,
 NT2RP3001688, NT2RP3001712, NT2RP3001792, NT2RP3001855, NT2 RP3002165,
 15 NT2RP3002377, NT2RP3002399, NT2RP3003157, NT2RP3003193, NT2RP3003251, NT
 2RP3003327, NT2RP3004013, NT2RP3004258, NT2RP3004504, NT2RP3004566,
 NT2RP3004572, N T2RP3004594, NT2RP3004617, NT2RP4000078, NT2RP4000111,
 NT2RP4000210, NT2RP4000398, NT2RP4000449, NT2RP4000518, NT2RP4000614,
 20 NT2RP4000787, NT2RP4000865, NT2RP4000997 , NT2RP4001029, NT2RP4001080,
 NT2RP4001148, NT2RP4001213, NT2RP4001433, NT2RP400152 9, NT2RP4001551,
 NT2RP4001638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP40020 78,
 OVARC1000479, OVARC1000846, OVARC1001381, OVARC1001555, OVARC1001577,
 25 OVARC1001949, PLACE1000066, PLACE1000133, PLACE1000583, PLACE1000596,
 PLACE1000706 , PLACE1001118, PLACE1001238, PLACE1001304, PLACE1001602,
 PLACE1001632, PLACE100245 0, PLACE1002532, PLACE1002834, PLACE1003190,
 PLACE1003302, PLACE1003605, PLACE10037 04, PLACE1003738, PLACE1003885,
 30 PLACE1004471, PLACE1004510, PLACE1004564, PLACE1004 681, PLACE1004902,
 PLACE1005646, PLACE1005876, PLACE1006196, PLACE1006414, PLACE100 6438,
 PLACE1006482, PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598,
 PLACE10 07955, PLACE1007969, PLACE1008627, PLACE1008941, PLACE1009099,
 35 PLACE1009246, PLACE1 009398, PLACE1010053, PLACE1010194, PLACE1010261,
 PLACE1010491, PLACE1010580, PLACE 1010702, PLACE1010771, PLACE1010870,
 PLACE1011576, PLACE2000072, PLACE2000359, PLAC E4000128, PLACE4000156,
 PLACE4000259, PLACE4000431, THYRO1000121, THYRO1000242, THY RO1000501,
 40 THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000349, Y7
 9AA1000539, Y79AA1000627, Y79AA1000705, Y79AA1000752, Y79AA1001105,
 Y79AA1001299, Y 79AA1001391, Y79AA1001533, Y79AA1001613, Y79AA1001848,
 Y79AA1001866, Y79AA1001963, Y79AA1002093, Y79AA1002472, Y79AA1002482,

(10) The following 352 clones were predicted to encode a protein in the category of nuclear
 protein (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000201, HEMBA1000216, HEMBA1000488, HEMBA1000561,
 50 HEMBA1000827 , HEMBA1000851, HEMBA1001088, HEMBA1001137, HEMBA1001476,
 HEMBA1001510, HEMBA100157 9, HEMBA1001800, HEMBA1001809, HEMBA1001819,
 HEMBA1001847, HEMBA1002035, HEMBA10020 92, HEMBA1002363, HEMBA1002495,
 HEMBA1002569, HEMBA1002609, HEMBA1002999, HEMBA1003 148, HEMBA1003418,
 55 HEMBA1003545, HEMBA1003568, HEMBA1003684, HEMBA1003760, HEMBA100 3783,
 HEMBA1003953, HEMBA1004097, HEMBA1004321, HEMBA1004353, HEMBA1004479,
 HEMBA10 04669, HEMBA1004758, HEMBA1005359, HEMBA1005475, HEMBA1005528,

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HEMBA1005548, HEMBA1 005931, HEMBA1006253, HEMBA1006278, HEMBA1006359,
HEMBA1006474, HEMBA1006559, HEMBA 1006914, HEMBB1000250, HEMBB1000399,
HEMBA1000789, HEMBB1001011, HEMBB1001314, HEMB B1001482, HEMBB1001908,
5 HEMBB1001915, HEMBB1002134, HEMBB1002217, MAMMA1000155, MAM MA1000183,
MAMMA1000388, MAMMA1000731, MAMMA1001633, MAMMA1001820, MAMMA1001837, MA
MMA1002650, MAMMA1002869, MAMMA1002937, MAMMA1003011, NT2RM1000055,
NT2RM1000187, N T2RM1000257, NT2RM1000394, NT2RM1000666, NT2RM1000691,
10 NT2RM1000852, NT2RM1000894, NT2RM1001092, NT2RM2000013, NT2RM2000735,
NT2RM2001035, NT2RM2001575, NT2RM2001605 , NT2RM2001635, NT2RM2001670,
NT2RM2001771, NT2RM2001797, NT2RM2001823, NT2RM200193 6, NT2RM2001989,
NT2RM2002100, NT2RM2002580, NT2RM4000024, NT2RM4000085, NT2RM40001 04,
15 NT2RM4000191, NT2RM4000215, NT2RM4000290, NT2RM4000421, NT2RM4000496,
NT2RM4000531, NT2RM4000734, NT2RM4000751, NT2RM4000996, NT2RM4001140,
NT2RM4001200 , NT2RM4001217, NT2RM4001382, NT2RM4001483, NT2RM4001592,
NT2RM4001605, NT2RM400161 1, NT2RM4001746, NT2RM4001783, NT2RM4001823,
20 NT2RM4001828, NT2RM4001858, NT2RM40019 79, NT2RM4002093, NT2RM4002146,
NT2RM4002527, NT2RP1000035, NT2RP1000111, NT2RP1000 333, NT2RP1000493,
NT2RP1000574, NT2RP1000721, NT2RP1000860, NT2RP1000966, NT2RP100 1177,
NT2RP2000008, NT2RP2000126, NT2RP2000133, NT2RP2000161, NT2RP2000297,
25 NT2RP20 00414, NT2RP2000931, NT2RP2001174, NT2RP2001233, NT2RP2001420,
NT2RP2001449, NT2RP2 001536, NT2RP2001762, NT2RP2002185, NT2RP2002252,
NT2RP2002259, NT2RP2002503, NT2RP 2002504, NT2RP2002591, NT2RP2002993,
NT2RP2003125, NT2RP2003228, NT2RP2003277, NT2R P2003286, NT2RP2003293,
30 NT2RP2003308, NT2RP2003564, NT2RP2003714, NT2RP2004013, NT2 RP2004187,
NT2RP2004961, NT2RP2005003, NT2RP2005037, NT2RP2005287, NT2RP2005496, NT
2RP2005520, NT2RP2005539, NT2RP2005722, NT2RP2005767, NT2RP2005857,
NT2RP2005942, N T2RP2006238, NT2RP2006464, NT2RP3000031, NT2RP3000050,
35 NT2RP3000361, NT2RP3000397, NT2RP3000512, NT2RP3000527, NT2RP1000590,
NT2RP3000603, NT2RP3000632, NT2RP3000917 , NT2RP3001057, NT2RP3001120,
NT2RP3001155, NT2RP3001268, NT2RP3001274, NT2RP300139 8, NT2RP3001399,
NT2RP3001427, NT2RP3001428, NT2RP3001587, NT2RP3001671, NT2RP30016 72,
40 NT2RP3001688, NT2RP3001712, NT2RP3001724, NT2RP3001792, NT2RP3001855,
NT2RP3002056, NT2RP3002165, NT2RP3002377, NT2RP3002399, NT2RP3003157,
NT2RP3003193 , NT2RP3003212, NT2RP3003251, NT2RP3003327, NT2RP3004206,
NT2RP3004209, NT2RP300425 8, NT2RP3004566, NT2RP3004572, NT2RP3004594,
45 NT2RP3004617, NT2RP4000078, NT2RP40001 11, NT2RP4000150, NT2RP4000210,
NT2RP4000398, NT2RP4000449, NT2RP4000457, NT2RP4000 518, NT2RP4000787,
NT2RP4000865, NT2RP4000997, NT2RP4001029, NT2RP4001080, NT2RP400 1148,
NT2RP4001207, NT2RP4001213, NT2RP4001433, NT2RP4001529, NT2RP4001551,
50 NT2RP40 01638, NT2RP4001753, NT2RP4001790, NT2RP4001938, NT2RP4002078,
OVARC1000006, OVARC1 000087, OVARC1000139, OVARC1000326, OVARC1000440,
OVARC1000479, OVARC1000846, OVARC 1000883, OVARC1001180, OVARC1001244,
OVARC1001381, OVARC1001555, OVARC1001577, OVAR C1001702, OVARC1001949,
55 OVARC1002112, PLACE1000066, PLACE1000133, PLACE1000406, PLA CE1000583,
PLACE1000596, PLACE1000706, PLACE1001118, PLACE1001238, PLACE1001304, PL
ACE1001602, PLACE1001611, PLACE1001632, PLACE1002450, PLACE1002532,

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PLACE1002834, PLACE1003100, PLACE1003190, PLACE1003302, PLACE1003605,
 PLACE1003704, PLACE1003738, PLACE1003885, PLACE1004471, PLACE1004510,
 PLACE1004564, PLACE1004681, PLACE1004902, PLACE1005287, PLACE1005876,
 5 PLACE1006011, PLACE1006119, PLACE1006414, PLACE1006438, PLACE1006482,
 PLACE1007239, PLACE1007346, PLACE1007544, PLACE1007598, PLACE1007955,
 PLACE1007969, PLACE1008044, PLACE1008177, PLACE1008603, PLACE1008627,
 PLACE1008941, PLACE1008947, PLACE1009099, PLACE1009113, PLACE1009246,
 10 PLACE1009398, PLACE1010152, PLACE1010194, PLACE1010261, PLACE1010491,
 PLACE1010702, PLACE1010720, PLACE1010771, PLACE1010870, PLACE1011056,
 PLACE1011229, PLACE1011576, PLACE1011664, PLACE2000072, PLACE2000359,
 PLACE2000411, PLACE4000014, PLACE4000128, PLACE4000156, PLACE4000259,
 15 PLACE4000261, PLACE4000431, THYRO1000121, THYRO1000242, THYRO1000501,
 THYRO1000585, THYRO1001100, THYRO1001189, Y79AA1000037, Y79AA1000214,
 Y79AA1000539, Y79AA1000589, Y79AA1000627, Y79AA1000705, Y79AA1000752,
 Y79AA1000784, Y79AA1001105, Y79AA1001299, Y79AA1001391, Y79AA1001533,
 20 Y79AA1001613, Y79AA1001848, Y79AA1001866, Y79AA1001963, Y79AA1002093,
 Y79AA1002472, Y79AA1002482,

(11) The following 111 clones were predicted to encode a protein in the category of proteins
 25 associated with protein synthesis or transport (including the clones belonging to plural
 categories).

HEMBA1000012, HEMBA1000542, HEMBA1001913, HEMBA1003773, HEMBA1004202,
 HEMBA1004356, HEMBA1004847, HEMBA1005047, HEMBA1005202, HEMBA1005963,
 30 HEMBA1006310, HEMBA1006652, HEMBA1006914, HEMBB1000217, HEMBB1000725,
 HEMBB1001346, HEMBB1001831, MAMMA1000085, MAMMA1000734, MAMMA1002170,
 MAMMA1002236, MAMMA1002598, NT2RM1000661, NT2RM2000504, NT2RM2000577,
 NT2RM2001131, NT2RM4000155, NT2RM4001444, NT2RM4002062, NT2RM4002205,
 35 NT2RM4002623, NT2RP1000326, NT2RP1000947, NT2RP1001569, NT2RP2000710,
 NT2RP2000880, NT2RP2001290, NT2RP2001511, NT2RP2001660, NT2RP2002185,
 NT2RP2002606, NT2RP2002959, NT2RP2002980, NT2RP2003158, NT2RP2003760,
 NT2RP2004194, NT2RP2004791, NT2RP2005012, NT2RP2005116, NT2RP2005204,
 40 NT2RP2006565, NT2RP2006598, NT2RP3000047, NT2RP3000366, NT2RP3000759,
 NT2RP3000968, NT2RP3001587, NT2RP3002529, NT2RP3003385, NT2RP3003589,
 NT2RP3003876, NT2RP3004618, NT2RP4000370, NT2RP4000524, NT2RP4000528, NT
 2RP4001041, NT2RP4001574, NT2RP4001592, NT2RP4002047, OVARC1000004,
 45 OVARC1000771, OVARC1000862, OVARC1001180, OVARC1001342, OVARC1001766,
 OVARC1002138, PLACE1000061, PLACE1000492, PLACE1000863, PLACE1001748,
 PLACE1002090, PLACE1003394, PLACE1003915, PLACE1004149, PLACE1004743,
 PLACE1005557, PLACE1005813, PLACE1006488, PLACE1006531, PLACE1006615,
 50 PLACE1007706, PLACE1008273, PLACE1008790, PLACE1008813, PLACE1009721,
 PLACE1009763, PLACE1009845, PLACE1010074, PLACE1011109, PLACE1011477,
 PLACE2000404, PLACE3000059, PLACE3000121, PLACE4000558, PLACE4000654,
 SKNMC1000011, THYRO1000288, THYRO1000974, Y79AA1000346, Y79AA1000968,
 55 Y79AA1002209,

(12) The following 23 clones were predicted to encode a protein in the category of proteins

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associated with cellular defense (including the clones belonging to plural categories).

HEMBA1000005, HEMBA1000531, HEMBB1000217, HEMBB1000399, MAMMA1000734,
NT2RP1000493 , NT2RP1000493, NT2RP2000006, NT2RP2000045, NT2RP2001536,
NT2RP2005204, NT2RP300059 0, NT2RP3001426, NT2RP3002056, NT2RP3004262,
NT2RP4001638, OVARC1001900, PLACE10056 11, PLACE1006958, PLACE1008275,
PLACE1009113, PLACE4000014, Y79AA1002139,

(13) The following 23 clones were predicted to encode a protein in the category of proteins
associated with development or growth (including the clones belonging to plural categories).

HEMBB1001802, HEMBB1002442, NT2RM2002142, NT2RM4001047, NT2RP2003308,
NT2RP2004816 , NT2RP3000994, NT2RP3001340, NT2RP3004206, NT2RP3004472,
NT2RP4000246, NT2RP400100 6, OVARC1000304, OVARC1000746, OVARC1000996,
PLACE1006037, PLACE1009622, PLACE10116 64, Y79AA1001692,

Table 9
Selected clones having the maximal ATGpr1 score of 0.3 or higher (3690 clones).

clone name	name of sequence	maximal ATGpr1 score
HEMBA1000005	F-HEMBA1000005	0.84
HEMBA1000012	F-HEMBA1000012	0.56
HEMBA1000020	F-HEMBA1000020	0.94
HEMBA1000030	F-HEMBA1000030	0.44
HEMBA1000046	F-HEMBA1000046	0.50
HEMBA1000050	F-HEMBA1000050	0.94
HEMBA1000076	F-HEMBA1000076	0.48
HEMBA1000129	F-HEMBA1000129	0.74
HEMBA1000141	F-HEMBA1000141	0.55
HEMBA1000150	F-HEMBA1000150	0.72
HEMBA1000156	F-HEMBA1000156	0.94
HEMBA1000158	F-HEMBA1000158	0.62
HEMBA1000168	F-HEMBA1000168	0.94
HEMBA1000185	F-HEMBA1000185	0.86
HEMBA1000193	F-HEMBA1000193	0.94

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	HEMBA1000201	F-HEMBA1000201	0.83
	HEMBA1000216	F-HEMBA1000216	0.32
	HEMBA1000227	F-HEMBA1000227	0.72
5	HEMBA1000231	F-HEMBA1000231	0.34
	HEMBA1000244	F-HEMBA1000244	0.51
	HEMBA1000288	F-HEMBA1000288	0.36
	HEMBA1000290	F-HEMBA1000290	0.45
10	HEMBA1000302	F-HEMBA1000302	0.71
	HEMBA1000303	F-HEMBA1000303	0.42
	HEMBA1000304	F-HEMBA1000304	0.45
	HEMBA1000307	F-HEMBA1000307	0.48
15	HEMBA1000327	F-HEMBA1000327	0.94
	HEMBA1000356	F-HEMBA1000356	0.90
	HEMBA1000369	F-HEMBA1000369	0.94
	HEMBA1000387	F-HEMBA1000387	0.66
20	HEMBA1000392	F-HEMBA1000392	0.60
	HEMBA1000396	F-HEMBA1000396	0.81
	HEMBA1000456	F-HEMBA1000456	0.90
	HEMBA1000460	F-HEMBA1000460	0.31
25	HEMBA1000488	F-HEMBA1000488	0.47
	HEMBA1000490	F-HEMBA1000490	0.89
	HEMBA1000491	F-HEMBA1000491	0.94
	HEMBA1000501	F-HEMBA1000501	0.67
30	HEMBA1000505	F-HEMBA1000505	0.65
	HEMBA1000508	F-HEMBA1000508	0.39
	HEMBA1000520	F-HEMBA1000520	0.94
	HEMBA1000523	F-HEMBA1000523	0.86
35	HEMBA1000531	F-HEMBA1000531	0.49
	HEMBA1000534	F-HEMBA1000534	0.52
	HEMBA1000542	F-HEMBA1000542	0.81
	HEMBA1000555	F-HEMBA1000555	0.67
40	HEMBA1000561	F-HEMBA1000561	0.34
	HEMBA1000568	F-HEMBA1000568	0.66
	HEMBA1000588	F-HEMBA1000588	0.79
	HEMBA1000591	F-HEMBA1000591	0.92
	HEMBA1000592	F-HEMBA1000592	0.73
45	HEMBA1000594	F-HEMBA1000594	0.89
	HEMBA1000608	F-HEMBA1000608	0.94
	HEMBA1000636	F-HEMBA1000636	0.94
	HEMBA1000637	F-HEMBA1000637	0.92
50	HEMBA1000657	F-HEMBA1000657	0.85
	HEMBA1000682	F-HEMBA1000682	0.94
	HEMBA1000686	F-HEMBA1000686	0.90
	HEMBA1000719	F-HEMBA1000719	0.94
55	HEMBA1000727	F-HEMBA1000727	0.40
	HEMBA1000752	F-HEMBA1000752	0.31

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	HEMBA1000817	F-HEMBA1000817	0.94
	HEMBA1000851	F-HEMBA1000851	0.63
	HEMBA1000867	F-HEMBA1000867	0.68
5	HEMBA1000869	F-HEMBA1000869	0.82
	HEMBA1000872	F-HEMBA1000872	0.54
	HEMBA1000910	F-HEMBA1000910	0.91
	HEMBA1000918	F-HEMBA1000918	0.38
10	HEMBA1000919	F-HEMBA1000919	0.83
	HEMBA1000942	F-HEMBA1000942	0.31
	HEMBA1000946	F-HEMBA1000946	0.75
	HEMBA1000968	F-HEMBA1000968	0.39
15	HEMBA1000971	F-HEMBA1000971	0.74
	HEMBA1000975	F-HEMBA1000975	0.46
	HEMBA1000986	F-HEMBA1000986	0.89
	HEMBA1001008	F-HEMBA1001008	0.47
20	HEMBA1001009	F-HEMBA1001009	0.86
	HEMBA1001022	F-HEMBA1001022	0.57
	HEMBA1001043	F-HEMBA1001043	0.79
	HEMBA1001052	F-HEMBA1001052	0.83
25	HEMBA1001059	F-HEMBA1001059	0.78
	HEMBA1001080	F-HEMBA1001080	0.77
	HEMBA1001085	F-HEMBA1001085	0.92
	HEMBA1001088	F-HEMBA1001088	0.94
30	HEMBA1001109	F-HEMBA1001109	0.50
	HEMBA1001122	F-HEMBA1001122	0.74
	HEMBA1001133	F-HEMBA1001133	0.45
	HEMBA1001137	F-HEMBA1001137	0.37
35	HEMBA1001140	F-HEMBA1001140	0.43
	HEMBA1001174	F-HEMBA1001174	0.44
	HEMBA1001197	F-HEMBA1001197	0.65
	HEMBA1001213	F-HEMBA1001213	0.61
40	HEMBA1001235	F-HEMBA1001235	0.94
	HEMBA1001247	F-HEMBA1001247	0.31
	HEMBA1001257	F-HEMBA1001257	0.92
	HEMBA1001281	F-HEMBA1001281	0.94
	HEMBA1001286	F-HEMBA1001286	0.49
45	HEMBA1001289	F-HEMBA1001289	0.94
	HEMBA1001302	F-HEMBA1001302	0.62
	HEMBA1001303	F-HEMBA1001303	0.79
	HEMBA1001310	F-HEMBA1001310	0.66
50	HEMBA1001326	F-HEMBA1001326	0.59
	HEMBA1001351	F-HEMBA1001351	0.65
	HEMBA1001361	F-HEMBA1001361	0.94
	HEMBA1001377	F-HEMBA1001377	0.87
55	HEMBA1001387	F-HEMBA1001387	0.94
	HEMBA1001388	F-HEMBA1001388	0.57

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	HEMBA1001398	F-HEMBA1001398	0.74
	HEMBA1001405	F-HEMBA1001405	0.61
	HEMBA1001407	F-HEMBA1001407	0.43
5	HEMBA1001413	F-HEMBA1001413	0.40
	HEMBA1001415	F-HEMBA1001415	0.94
	HEMBA1001446	F-HEMBA1001446	0.90
	HEMBA1001450	F-HEMBA1001450	0.40
10	HEMBA1001455	F-HEMBA1001455	0.73
	HEMBA1001476	F-HEMBA1001476	0.65
	HEMBA1001497	F-HEMBA1001497	0.48
	HEMBA1001510	F-HEMBA1001510	0.36
15	HEMBA1001526	F-HEMBA1001526	0.66
	HEMBA1001533	F-HEMBA1001533	0.46
	HEMBA1001569	F-HEMBA1001569	0.73
	HEMBA1001570	F-HEMBA1001570	0.53
20	HEMBA1001579	F-HEMBA1001579	0.82
	HEMBA1001581	F-HEMBA1001581	0.80
	HEMBA1001595	F-HEMBA1001595	0.72
	HEMBA1001620	F-HEMBA1001620	0.94
25	HEMBA1001635	F-HEMBA1001635	0.87
	HEMBA1001640	F-HEMBA1001640	0.82
	HEMBA1001647	F-HEMBA1001647	0.91
	HEMBA1001655	F-HEMBA1001655	0.39
30	HEMBA1001661	F-HEMBA1001661	0.86
	HEMBA1001672	F-HEMBA1001672	0.94
	HEMBA1001702	F-HEMBA1001702	0.72
	HEMBA1001711	F-HEMBA1001711	0.74
35	HEMBA1001714	F-HEMBA1001714	0.89
	HEMBA1001723	F-HEMBA1001723	0.94
	HEMBA1001731	F-HEMBA1001731	0.37
	HEMBA1001744	F-HEMBA1001744	0.31
40	HEMBA1001746	F-HEMBA1001746	0.39
	HEMBA1001781	F-HEMBA1001781	0.67
	HEMBA1001800	F-HEMBA1001800	0.69
	HEMBA1001804	F-HEMBA1001804	0.85
45	HEMBA1001809	F-HEMBA1001809	0.78
	HEMBA1001815	F-HEMBA1001815	0.49
	HEMBA1001819	F-HEMBA1001819	0.90
	HEMBA1001822	F-HEMBA1001822	0.80
50	HEMBA1001824	F-HEMBA1001824	0.68
	HEMBA1001847	F-HEMBA1001847	0.46
	HEMBA1001864	F-HEMBA1001864	0.34
	HEMBA1001866	F-HEMBA1001866	0.53
	HEMBA1001869	F-HEMBA1001869	0.69
55	HEMBA1001896	F-HEMBA1001896	0.48
	HEMBA1001910	F-HEMBA1001910	0.84

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	HEMBA1001912	F-HEMBA1001912	0.48
	HEMBA1001913	F-HEMBA1001913	0.94
	HEMBA1001915	F-HEMBA1001915	0.41
5	HEMBA1001921	F-HEMBA1001921	0.94
	HEMBA1001939	F-HEMBA1001939	0.87
	HEMBA1001950	F-HEMBA1001950	0.36
	HEMBA1001967	F-HEMBA1001967	0.94
10	HEMBA1001987	F-HEMBA1001987	0.41
	HEMBA1002018	F-HEMBA1002018	0.41
	HEMBA1002035	F-HEMBA1002035	0.36
	HEMBA1002049	F-HEMBA1002049	0.39
15	HEMBA1002084	F-HEMBA1002084	0.45
	HEMBA1002092	F-HEMBA1002092	0.94
	HEMBA1002102	F-HEMBA1002102	0.94
	HEMBA1002119	F-HEMBA1002119	0.60
20	HEMBA1002125	F-HEMBA1002125	0.88
	HEMBA1002150	F-HEMBA1002150	0.31
	HEMBA1002151	F-HEMBA1002151	0.82
	HEMBA1002161	F-HEMBA1002161	0.94
25	HEMBA1002177	F-HEMBA1002177	0.38
	HEMBA1002189	F-HEMBA1002189	0.43
	HEMBA1002191	F-HEMBA1002191	0.94
	HEMBA1002199	F-HEMBA1002199	0.85
30	HEMBA1002212	F-HEMBA1002212	0.39
	HEMBA1002215	F-HEMBA1002215	0.94
	HEMBA1002229	F-HEMBA1002229	0.83
	HEMBA1002237	F-HEMBA1002237	0.86
35	HEMBA1002241	F-HEMBA1002241	0.66
	HEMBA1002265	F-HEMBA1002265	0.38
	HEMBA1002267	F-HEMBA1002267	0.33
	HEMBA1002341	F-HEMBA1002341	0.53
40	HEMBA1002363	F-HEMBA1002363	0.88
	HEMBA1002417	F-HEMBA1002417	0.83
	HEMBA1002419	F-HEMBA1002419	0.92
	HEMBA1002430	F-HEMBA1002430	0.45
	HEMBA1002439	F-HEMBA1002439	0.83
45	HEMBA1002458	F-HEMBA1002458	0.47
	HEMBA1002460	F-HEMBA1002460	0.48
	HEMBA1002462	F-HEMBA1002462	0.55
	HEMBA1002469	F-HEMBA1002469	0.79
50	HEMBA1002475	F-HEMBA1002475	0.88
	HEMBA1002477	F-HEMBA1002477	0.45
	HEMBA1002495	F-HEMBA1002495	0.78
	HEMBA1002503	F-HEMBA1002503	0.94
55	HEMBA1002508	F-HEMBA1002508	0.33
	HEMBA1002513	F-HEMBA1002513	0.41

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	HEMBA1002515	F-HEMBA1002515	0.94
	HEMBA1002542	F-HEMBA1002542	0.46
	HEMBA1002547	F-HEMBA1002547	0.45
5	HEMBA1002569	F-HEMBA1002569	0.86
	HEMBA1002583	F-HEMBA1002583	0.86
	HEMBA1002609	F-HEMBA1002609	0.75
	HEMBA1002624	F-HEMBA1002624	0.59
10	HEMBA1002688	F-HEMBA1002688	0.88
	HEMBA1002696	F-HEMBA1002696	0.82
	HEMBA1002703	F-HEMBA1002703	0.94
	HEMBA1002746	F-HEMBA1002746	0.33
15	HEMBA1002750	F-HEMBA1002750	0.53
	HEMBA1002768	F-HEMBA1002768	0.94
	HEMBA1002770	F-HEMBA1002770	0.61
	HEMBA1002777	F-HEMBA1002777	0.90
20	HEMBA1002779	F-HEMBA1002779	0.92
	HEMBA1002794	F-HEMBA1002794	0.86
	HEMBA1002810	F-HEMBA1002810	0.87
	HEMBA1002816	F-HEMBA1002816	0.91
25	HEMBA1002818	F-HEMBA1002818	0.94
	HEMBA1002850	F-HEMBA1002850	0.57
	HEMBA1002863	F-HEMBA1002863	0.48
	HEMBA1002876	F-HEMBA1002876	0.86
30	HEMBA1002935	F-HEMBA1002935	0.91
	HEMBA1002937	F-HEMBA1002937	0.61
	HEMBA1002939	F-HEMBA1002939	0.32
	HEMBA1002951	F-HEMBA1002951	0.83
35	HEMBA1002954	F-HEMBA1002954	0.67
	HEMBA1002970	F-HEMBA1002970	0.33
	HEMBA1002971	F-HEMBA1002971	0.57
	HEMBA1002973	F-HEMBA1002973	0.33
40	HEMBA1002997	F-HEMBA1002997	0.46
	HEMBA1002999	F-HEMBA1002999	0.49
	HEMBA1003021	F-HEMBA1003021	0.74
	HEMBA1003033	F-HEMBA1003033	0.94
45	HEMBA1003035	F-HEMBA1003035	0.61
	HEMBA1003041	F-HEMBA1003041	0.40
	HEMBA1003046	F-HEMBA1003046	0.94
	HEMBA1003067	F-HEMBA1003067	0.34
50	HEMBA1003077	F-HEMBA1003077	0.83
	HEMBA1003078	F-HEMBA1003078	0.89
	HEMBA1003079	F-HEMBA1003079	0.49
	HEMBA1003096	F-HEMBA1003096	0.34
55	HEMBA1003117	F-HEMBA1003117	0.94
	HEMBA1003129	F-HEMBA1003129	0.81
	HEMBA1003136	F-HEMBA1003136	0.77

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	HEMBA1003148	F-HEMBA1003148	0.91
	HEMBA1003175	F-HEMBA1003175	0.41
	HEMBA1003179	F-HEMBA1003179	0.42
5	HEMBA1003199	F-HEMBA1003199	0.84
	HEMBA1003222	F-HEMBA1003222	0.47
	HEMBA1003235	F-HEMBA1003235	0.94
	HEMBA1003250	F-HEMBA1003250	0.39
10	HEMBA1003257	F-HEMBA1003257	0.88
	HEMBA1003281	F-HEMBA1003281	0.67
	HEMBA1003286	F-HEMBA1003286	0.57
	HEMBA1003291	F-HEMBA1003291	0.89
15	HEMBA1003322	F-HEMBA1003322	0.60
	HEMBA1003327	F-HEMBA1003327	0.88
	HEMBA1003369	F-HEMBA1003369	0.89
	HEMBA1003370	F-HEMBA1003370	0.75
20	HEMBA1003380	F-HEMBA1003380	0.68
	HEMBA1003395	F-HEMBA1003395	0.88
	HEMBA1003402	F-HEMBA1003402	0.45
	HEMBA1003403	F-HEMBA1003403	0.44
25	HEMBA1003408	F-HEMBA1003408	0.34
	HEMBA1003417	F-HEMBA1003417	0.78
	HEMBA1003418	F-HEMBA1003418	0.94
	HEMBA1003433	F-HEMBA1003433	0.70
30	HEMBA1003447	F-HEMBA1003447	0.49
	HEMBA1003461	F-HEMBA1003461	0.85
	HEMBA1003463	F-HEMBA1003463	0.59
	HEMBA1003480	F-HEMBA1003480	0.94
35	HEMBA1003528	F-HEMBA1003528	0.90
	HEMBA1003538	F-HEMBA1003538	0.47
	HEMBA1003545	F-HEMBA1003545	0.74
	HEMBA1003555	F-HEMBA1003555	0.94
40	HEMBA1003556	F-HEMBA1003556	0.44
	HEMBA1003560	F-HEMBA1003560	0.40
	HEMBA1003568	F-HEMBA1003568	0.94
	HEMBA1003569	F-HEMBA1003569	0.82
45	HEMBA1003581	F-HEMBA1003581	0.83
	HEMBA1003591	F-HEMBA1003591	0.68
	HEMBA1003615	F-HEMBA1003615	0.94
	HEMBA1003617	F-HEMBA1003617	0.88
50	HEMBA1003621	F-HEMBA1003621	0.47
	HEMBA1003645	F-HEMBA1003645	0.75
	HEMBA1003646	F-HEMBA1003646	0.51
	HEMBA1003662	F-HEMBA1003662	0.61
55	HEMBA1003667	F-HEMBA1003667	0.54
	HEMBA1003679	F-HEMBA1003679	0.72
	HEMBA1003680	F-HEMBA1003680	0.52

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	HEMBA1003684	F-HEMBA1003684	0.94
	HEMBA1003690	F-HEMBA1003690	0.93
	HEMBA1003692	F-HEMBA1003692	0.46
5	HEMBA1003711	F-HEMBA1003711	0.94
	HEMBA1003720	F-HEMBA1003720	0.94
	HEMBA1003729	F-HEMBA1003729	0.73
	HEMBA1003742	F-HEMBA1003742	0.94
10	HEMBA1003760	F-HEMBA1003760	0.75
	HEMBA1003783	F-HEMBA1003783	0.31
	HEMBA1003799	F-HEMBA1003799	0.70
	HEMBA1003803	F-HEMBA1003803	0.87
15	HEMBA1003804	F-HEMBA1003804	0.94
	HEMBA1003805	F-HEMBA1003805	0.94
	HEMBA1003807	F-HEMBA1003807	0.91
	HEMBA1003827	F-HEMBA1003827	0.62
20	HEMBA1003836	F-HEMBA1003836	0.69
	HEMBA1003838	F-HEMBA1003838	0.80
	HEMBA1003864	F-HEMBA1003864	0.94
	HEMBA1003866	F-HEMBA1003866	0.32
25	HEMBA1003879	F-HEMBA1003879	0.82
	HEMBA1003880	F-HEMBA1003880	0.59
	HEMBA1003893	F-HEMBA1003893	0.47
	HEMBA1003953	F-HEMBA1003953	0.77
30	HEMBA1003959	F-HEMBA1003959	0.32
	HEMBA1003978	F-HEMBA1003978	0.37
	HEMBA1003985	F-HEMBA1003985	0.31
	HEMBA1003989	F-HEMBA1003989	0.75
35	HEMBA1004011	F-HEMBA1004011	0.34
	HEMBA1004048	F-HEMBA1004048	0.32
	HEMBA1004055	F-HEMBA1004055	0.74
	HEMBA1004056	F-HEMBA1004056	0.49
40	HEMBA1004074	F-HEMBA1004074	0.39
	HEMBA1004086	F-HEMBA1004086	0.45
	HEMBA1004097	F-HEMBA1004097	0.82
	HEMBA1004111	F-HEMBA1004111	0.94
45	HEMBA1004131	F-HEMBA1004131	0.84
	HEMBA1004133	F-HEMBA1004133	0.40
	HEMBA1004143	F-HEMBA1004143	0.33
	HEMBA1004146	F-HEMBA1004146	0.31
50	HEMBA1004150	F-HEMBA1004150	0.70
	HEMBA1004168	F-HEMBA1004168	0.34
	HEMBA1004199	F-HEMBA1004199	0.34
	HEMBA1004200	F-HEMBA1004200	0.40
	HEMBA1004202	F-HEMBA1004202	0.88
55	HEMBA1004203	F-HEMBA1004203	0.94
	HEMBA1004207	F-HEMBA1004207	0.53

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	HEMBA1004227	F-HEMBA1004227	0.94
	HEMBA1004238	F-HEMBA1004238	0.44
	HEMBA1004246	F-HEMBA1004246	0.71
5	HEMBA1004248	F-HEMBA1004248	0.40
	HEMBA1004264	F-HEMBA1004264	0.94
	HEMBA1004274	F-HEMBA1004274	0.88
	HEMBA1004275	F-HEMBA1004275	0.85
10	HEMBA1004276	F-HEMBA1004276	0.32
	HEMBA1004286	F-HEMBA1004286	0.37
	HEMBA1004289	F-HEMBA1004289	0.76
	HEMBA1004321	F-HEMBA1004321	0.82
15	HEMBA1004327	F-HEMBA1004327	0.40
	HEMBA1004330	F-HEMBA1004330	0.84
	HEMBA1004335	F-HEMBA1004335	0.79
	HEMBA1004341	F-HEMBA1004341	0.38
20	HEMBA1004353	F-HEMBA1004353	0.79
	HEMBA1004372	F-HEMBA1004372	0.94
	HEMBA1004389	F-HEMBA1004389	0.32
	HEMBA1004408	F-HEMBA1004408	0.70
25	HEMBA1004479	F-HEMBA1004479	0.55
	HEMBA1004499	F-HEMBA1004499	0.62
	HEMBA1004502	F-HEMBA1004502	0.31
	HEMBA1004507	F-HEMBA1004507	0.71
30	HEMBA1004509	F-HEMBA1004509	0.68
	HEMBA1004534	F-HEMBA1004534	0.56
	HEMBA1004542	F-HEMBA1004542	0.36
	HEMBA1004554	F-HEMBA1004554	0.90
35	HEMBA1004560	F-HEMBA1004560	0.57
	HEMBA1004573	F-HEMBA1004573	0.93
	HEMBA1004596	F-HEMBA1004596	0.45
	HEMBA1004604	F-HEMBA1004604	0.91
40	HEMBA1004610	F-HEMBA1004610	0.59
	HEMBA1004632	F-HEMBA1004632	0.59
	HEMBA1004637	F-HEMBA1004637	0.38
	HEMBA1004638	F-HEMBA1004638	0.40
45	HEMBA1004669	F-HEMBA1004669	0.94
	HEMBA1004693	F-HEMBA1004693	0.52
	HEMBA1004697	F-HEMBA1004697	0.94
	HEMBA1004705	F-HEMBA1004705	0.94
50	HEMBA1004709	F-HEMBA1004709	0.77
	HEMBA1004711	F-HEMBA1004711	0.73
	HEMBA1004725	F-HEMBA1004725	0.94
	HEMBA1004734	F-HEMBA1004734	0.94
	HEMBA1004736	F-HEMBA1004736	0.94
55	HEMBA1004751	F-HEMBA1004751	0.64
	HEMBA1004752	F-HEMBA1004752	0.87

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	HEMBA1004753	F-HEMBA1004753	0.54
	HEMBA1004756	F-HEMBA1004756	0.54
	HEMBA1004758	F-HEMBA1004758	0.69
5	HEMBA1004763	F-HEMBA1004763	0.94
	HEMBA1004768	F-HEMBA1004768	0.66
	HEMBA1004771	F-HEMBA1004771	0.72
	HEMBA1004776	F-HEMBA1004776	0.49
10	HEMBA1004795	F-HEMBA1004795	0.46
	HEMBA1004806	F-HEMBA1004806	0.32
	HEMBA1004847	F-HEMBA1004847	0.79
	HEMBA1004850	F-HEMBA1004850	0.94
15	HEMBA1004863	F-HEMBA1004863	0.32
	HEMBA1004864	F-HEMBA1004864	0.94
	HEMBA1004889	F-HEMBA1004889	0.94
	HEMBA1004923	F-HEMBA1004923	0.70
20	HEMBA1004929	F-HEMBA1004929	0.31
	HEMBA1004930	F-HEMBA1004930	0.90
	HEMBA1004933	F-HEMBA1004933	0.84
	HEMBA1004934	F-HEMBA1004934	0.34
25	HEMBA1004944	F-HEMBA1004944	0.40
	HEMBA1004954	F-HEMBA1004954	0.62
	HEMBA1004972	F-HEMBA1004972	0.90
	HEMBA1004973	F-HEMBA1004973	0.94
30	HEMBA1004977	F-HEMBA1004977	0.77
	HEMBA1004980	F-HEMBA1004980	0.33
	HEMBA1005009	F-HEMBA1005009	0.94
	HEMBA1005019	F-HEMBA1005019	0.32
35	HEMBA1005029	F-HEMBA1005029	0.84
	HEMBA1005035	F-HEMBA1005035	0.91
	HEMBA1005047	F-HEMBA1005047	0.94
	HEMBA1005050	F-HEMBA1005050	0.88
40	HEMBA1005066	F-HEMBA1005066	0.79
	HEMBA1005075	F-HEMBA1005075	0.31
	HEMBA1005079	F-HEMBA1005079	0.35
	HEMBA1005083	F-HEMBA1005083	0.43
45	HEMBA1005101	F-HEMBA1005101	0.94
	HEMBA1005113	F-HEMBA1005113	0.38
	HEMBA1005133	F-HEMBA1005133	0.34
	HEMBA1005149	F-HEMBA1005149	0.36
50	HEMBA1005185	F-HEMBA1005185	0.64
	HEMBA1005201	F-HEMBA1005201	0.83
	HEMBA1005202	F-HEMBA1005202	0.94
	HEMBA1005206	F-HEMBA1005206	0.94
	HEMBA1005219	F-HEMBA1005219	0.57
55	HEMBA1005223	F-HEMBA1005223	0.33
	HEMBA1005244	F-HEMBA1005244	0.35

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	HEMBA1005252	F-HEMBA1005252	0. 80
	HEMBA1005296	F-HEMBA1005296	0. 94
	HEMBA1005314	F-HEMBA1005314	0. 94
5	HEMBA1005331	F-HEMBA1005331	0. 69
	HEMBA1005338	F-HEMBA1005338	0. 94
	HEMBA1005367	F-HEMBA1005367	0. 50
	HEMBA1005382	F-HEMBA1005382	0. 91
10	HEMBA1005394	F-HEMBA1005394	0. 45
	HEMBA1005403	F-HEMBA1005403	0. 94
	HEMBA1005411	F-HEMBA1005411	0. 33
	HEMBA1005423	F-HEMBA1005423	0. 64
15	HEMBA1005468	F-HEMBA1005468	0. 33
	HEMBA1005469	F-HEMBA1005469	0. 59
	HEMBA1005472	F-HEMBA1005472	0. 32
	HEMBA1005474	F-HEMBA1005474	0. 51
20	HEMBA1005475	F-HEMBA1005475	0. 36
	HEMBA1005513	F-HEMBA1005513	0. 94
	HEMBA1005517	F-HEMBA1005517	0. 94
	HEMBA1005518	F-HEMBA1005518	0. 39
25	HEMBA1005526	F-HEMBA1005526	0. 62
	HEMBA1005528	F-HEMBA1005528	0. 81
	HEMBA1005530	F-HEMBA1005530	0. 62
	HEMBA1005548	F-HEMBA1005548	0. 94
30	HEMBA1005558	F-HEMBA1005558	0. 94
	HEMBA1005576	F-HEMBA1005576	0. 49
	HEMBA1005581	F-HEMBA1005581	0. 53
	HEMBA1005582	F-HEMBA1005582	0. 34
35	HEMBA1005583	F-HEMBA1005583	0. 94
	HEMBA1005595	F-HEMBA1005595	0. 93
	HEMBA1005609	F-HEMBA1005609	0. 34
	HEMBA1005621	F-HEMBA1005621	0. 94
40	HEMBA1005666	F-HEMBA1005666	0. 57
	HEMBA1005680	F-HEMBA1005680	0. 38
	HEMBA1005685	F-HEMBA1005685	0. 32
	HEMBA1005732	F-HEMBA1005732	0. 33
45	HEMBA1005737	F-HEMBA1005737	0. 92
	HEMBA1005746	F-HEMBA1005746	0. 37
	HEMBA1005755	F-HEMBA1005755	0. 94
	HEMBA1005813	F-HEMBA1005813	0. 33
	HEMBA1005815	F-HEMBA1005815	0. 82
50	HEMBA1005822	F-HEMBA1005822	0. 83
	HEMBA1005834	F-HEMBA1005834	0. 70
	HEMBA1005852	F-HEMBA1005852	0. 76
	HEMBA1005884	F-HEMBA1005884	0. 79
55	HEMBA1005891	F-HEMBA1005891	0. 94
	HEMBA1005963	F-HEMBA1005963	0. 40

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	HEMBA1005990	F-HEMBA1005990	0. 82
	HEMBA1005991	F-HEMBA1005991	0. 43
	HEMBA1006031	F-HEMBA1006031	0. 55
5	HEMBA1006035	F-HEMBA1006035	0. 43
	HEMBA1006081	F-HEMBA1006081	0. 36
	HEMBA1006091	F-HEMBA1006091	0. 81
	HEMBA1006100	F-HEMBA1006100	0. 31
10	HEMBA1006108	F-HEMBA1006108	0. 80
	HEMBA1006121	F-HEMBA1006121	0. 45
	HEMBA1006130	F-HEMBA1006130	0. 46
	HEMBA1006138	F-HEMBA1006138	0. 48
15	HEMBA1006155	F-HEMBA1006155	0. 72
	HEMBA1006173	F-HEMBA1006173	0. 42
	HEMBA1006182	F-HEMBA1006182	0. 73
	HEMBA1006198	F-HEMBA1006198	0. 94
20	HEMBA1006235	F-HEMBA1006235	0. 58
	HEMBA1006248	F-HEMBA1006248	0. 57
	HEMBA1006252	F-HEMBA1006252	0. 31
	HEMBA1006272	F-HEMBA1006272	0. 54
25	HEMBA1006278	F-HEMBA1006278	0. 92
	HEMBA1006283	F-HEMBA1006283	0. 90
	HEMBA1006284	F-HEMBA1006284	0. 93
	HEMBA1006291	F-HEMBA1006291	0. 38
30	HEMBA1006293	F-HEMBA1006293	0. 89
	HEMBA1006309	F-HEMBA1006309	0. 94
	HEMBA1006310	F-HEMBA1006310	0. 67
	HEMBA1006344	F-HEMBA1006344	0. 94
35	HEMBA1006347	F-HEMBA1006347	0. 94
	HEMBA1006349	F-HEMBA1006349	0. 56
	HEMBA1006377	F-HEMBA1006377	0. 94
	HEMBA1006381	F-HEMBA1006381	0. 33
40	HEMBA1006398	F-HEMBA1006398	0. 71
	HEMBA1006424	F-HEMBA1006424	0. 40
	HEMBA1006445	F-HEMBA1006445	0. 86
	HEMBA1006467	F-HEMBA1006467	0. 55
45	HEMBA1006474	F-HEMBA1006474	0. 66
	HEMBA1006483	F-HEMBA1006483	0. 71
	HEMBA1006485	F-HEMBA1006485	0. 87
	HEMBA1006492	F-HEMBA1006492	0. 73
50	HEMBA1006494	F-HEMBA1006494	0. 90
	HEMBA1006497	F-HEMBA1006497	0. 77
	HEMBA1006502	F-HEMBA1006502	0. 80
	HEMBA1006507	F-HEMBA1006507	0. 56
	HEMBA1006521	F-HEMBA1006521	0. 91
55	HEMBA1006530	F-HEMBA1006530	0. 37
	HEMBA1006535	F-HEMBA1006535	0. 56

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	HEMBA1006559	F-HEMBA1006559	0.39
	HEMBA1006566	F-HEMBA1006566	0.41
	HEMBA1006579	F-HEMBA1006579	0.83
5	HEMBA1006583	F-HEMBA1006583	0.31
	HEMBA1006612	F-HEMBA1006612	0.55
	HEMBA1006624	F-HEMBA1006624	0.94
	HEMBA1006631	F-HEMBA1006631	0.74
10	HEMBA1006643	F-HEMBA1006643	0.38
	HEMBA1006652	F-HEMBA1006652	0.93
	HEMBA1006659	F-HEMBA1006659	0.63
	HEMBA1006674	F-HEMBA1006674	0.54
15	HEMBA1006682	F-HEMBA1006682	0.34
	HEMBA1006708	F-HEMBA1006708	0.40
	HEMBA1006709	F-HEMBA1006709	0.41
	HEMBA1006717	F-HEMBA1006717	0.43
20	HEMBA1006737	F-HEMBA1006737	0.72
	HEMBA1006754	F-HEMBA1006754	0.45
	HEMBA1006758	F-HEMBA1006758	0.60
	HEMBA1006767	F-HEMBA1006767	0.61
25	HEMBA1006789	F-HEMBA1006789	0.34
	HEMBA1006795	F-HEMBA1006795	0.48
	HEMBA1006796	F-HEMBA1006796	0.41
	HEMBA1006807	F-HEMBA1006807	0.34
30	HEMBA1006832	F-HEMBA1006832	0.59
	HEMBA1006877	F-HEMBA1006877	0.90
	HEMBA1006885	F-HEMBA1006885	0.80
	HEMBA1006900	F-HEMBA1006900	0.34
35	HEMBA1006914	F-HEMBA1006914	0.78
	HEMBA1006926	F-HEMBA1006926	0.67
	HEMBA1006936	F-HEMBA1006936	0.65
	HEMBA1006941	F-HEMBA1006941	0.94
40	HEMBA1006973	F-HEMBA1006973	0.64
	HEMBA1006976	F-HEMBA1006976	0.40
	HEMBA1006993	F-HEMBA1006993	0.81
	HEMBA1006996	F-HEMBA1006996	0.77
45	HEMBA1007002	F-HEMBA1007002	0.72
	HEMBA1007018	F-HEMBA1007018	0.31
	HEMBA1007052	F-HEMBA1007052	0.41
	HEMBA1007062	F-HEMBA1007062	0.39
	HEMBA1007066	F-HEMBA1007066	0.35
50	HEMBA1007080	F-HEMBA1007080	0.43
	HEMBA1007085	F-HEMBA1007085	0.73
	HEMBA1007087	F-HEMBA1007087	0.94
	HEMBA1007112	F-HEMBA1007112	0.49
55	HEMBA1007121	F-HEMBA1007121	0.70
	HEMBA1007149	F-HEMBA1007149	0.94

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	HEMBA1007151	F-HEMBA1007151	0. 80
	HEMBA1007174	F-HEMBA1007174	0. 63
	HEMBA1007178	F-HEMBA1007178	0. 47
5	HEMBA1007194	F-HEMBA1007194	0. 94
	HEMBA1007203	F-HEMBA1007203	0. 48
	HEMBA1007224	F-HEMBA1007224	0. 74
	HEMBA1007243	F-HEMBA1007243	0. 94
10	HEMBA1007251	F-HEMBA1007251	0. 79
	HEMBA1007267	F-HEMBA1007267	0. 86
	HEMBA1007281	F-HEMBA1007281	0. 61
	HEMBA1007300	F-HEMBA1007300	0. 87
15	HEMBA1007301	F-HEMBA1007301	0. 38
	HEMBA1007319	F-HEMBA1007319	0. 47
	HEMBA1007320	F-HEMBA1007320	0. 69
	HEMBA1007342	F-HEMBA1007342	0. 80
20	HEMBA1000008	F-HEMBA1000008	0. 39
	HEMBA1000018	F-HEMBA1000018	0. 79
	HEMBA1000024	F-HEMBA1000024	0. 62
	HEMBA1000025	F-HEMBA1000025	0. 66
25	HEMBA1000030	F-HEMBA1000030	0. 33
	HEMBA1000036	F-HEMBA1000036	0. 75
	HEMBA1000037	F-HEMBA1000037	0. 94
	HEMBA1000048	F-HEMBA1000048	0. 87
30	HEMBA1000083	F-HEMBA1000083	0. 48
	HEMBA1000103	F-HEMBA1000103	0. 63
	HEMBA1000119	F-HEMBA1000119	0. 94
	HEMBA1000136	F-HEMBA1000136	0. 92
35	HEMBA1000173	F-HEMBA1000173	0. 46
	HEMBA1000175	F-HEMBA1000175	0. 48
	HEMBA1000198	F-HEMBA1000198	0. 74
	HEMBA1000215	F-HEMBA1000215	0. 61
40	HEMBA1000217	F-HEMBA1000217	0. 94
	HEMBA1000226	F-HEMBA1000226	0. 94
	HEMBA1000240	F-HEMBA1000240	0. 40
	HEMBA1000244	F-HEMBA1000244	0. 81
45	HEMBA1000266	F-HEMBA1000266	0. 92
	HEMBA1000338	F-HEMBA1000338	0. 33
	HEMBA1000339	F-HEMBA1000339	0. 40
	HEMBA1000391	F-HEMBA1000391	0. 43
50	HEMBA1000438	F-HEMBA1000438	0. 79
	HEMBA1000449	F-HEMBA1000449	0. 48
	HEMBA1000510	F-HEMBA1000510	0. 35
	HEMBA1000550	F-HEMBA1000550	0. 94
	HEMBA1000556	F-HEMBA1000556	0. 89
55	HEMBA1000589	F-HEMBA1000589	0. 77
	HEMBA1000591	F-HEMBA1000591	0. 33

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	HEMBB1000592	F-HEMBB1000592	0.77
	HEMBB1000593	F-HEMBB1000593	0.68
	HEMBB1000623	F-HEMBB1000623	0.94
5	HEMBB1000630	F-HEMBB1000630	0.59
	HEMBB1000631	F-HEMBB1000631	0.71
	HEMBB1000632	F-HEMBB1000632	0.38
	HEMBB1000671	F-HEMBB1000671	0.36
10	HEMBB1000673	F-HEMBB1000673	0.54
	HEMBB1000693	F-HEMBB1000693	0.68
	HEMBB1000705	F-HEMBB1000705	0.44
	HEMBB1000706	F-HEMBB1000706	0.45
15	HEMBB1000725	F-HEMBB1000725	0.91
	HEMBB1000763	F-HEMBB1000763	0.87
	HEMBB1000774	F-HEMBB1000774	0.80
	HEMBB1000781	F-HEMBB1000781	0.94
20	HEMBB1000789	F-HEMBB1000789	0.34
	HEMBB1000807	F-HEMBB1000807	0.94
	HEMBB1000810	F-HEMBB1000810	0.33
	HEMBB1000826	F-HEMBB1000826	0.36
25	HEMBB1000835	F-HEMBB1000835	0.81
	HEMBB1000848	F-HEMBB1000848	0.66
	HEMBB1000852	F-HEMBB1000852	0.85
	HEMBB1000870	F-HEMBB1000870	0.34
30	HEMBB1000887	F-HEMBB1000887	0.58
	HEMBB1000908	F-HEMBB1000908	0.31
	HEMBB1000927	F-HEMBB1000927	0.94
	HEMBB1000947	F-HEMBB1000947	0.33
35	HEMBB1000973	F-HEMBB1000973	0.72
	HEMBB1000975	F-HEMBB1000975	0.68
	HEMBB1000985	F-HEMBB1000985	0.62
	HEMBB1000991	F-HEMBB1000991	0.45
40	HEMBB1001011	F-HEMBB1001011	0.58
	HEMBB1001014	F-HEMBB1001014	0.86
	HEMBB1001020	F-HEMBB1001020	0.87
	HEMBB1001024	F-HEMBB1001024	0.64
45	HEMBB1001056	F-HEMBB1001056	0.94
	HEMBB1001058	F-HEMBB1001058	0.39
	HEMBB1001068	F-HEMBB1001068	0.57
	HEMBB1001096	F-HEMBB1001096	0.48
	HEMBB1001105	F-HEMBB1001105	0.45
50	HEMBB1001112	F-HEMBB1001112	0.47
	HEMBB1001117	F-HEMBB1001117	0.83
	HEMBB1001126	F-HEMBB1001126	0.76
	HEMBB1001137	F-HEMBB1001137	0.53
55	HEMBB1001151	F-HEMBB1001151	0.94
	HEMBB1001153	F-HEMBB1001153	0.77

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	HEMBB1001169	F-HEMBB1001169	0.39
	HEMBB1001175	F-HEMBB1001175	0.91
	HEMBB1001182	F-HEMBB1001182	0.94
5	HEMBB1001199	F-HEMBB1001199	0.54
	HEMBB1001210	F-HEMBB1001210	0.88
	HEMBB1001234	F-HEMBB1001234	0.67
	HEMBB1001242	F-HEMBB1001242	0.33
10	HEMBB1001288	F-HEMBB1001288	0.33
	HEMBB1001289	F-HEMBB1001289	0.58
	HEMBB1001294	F-HEMBB1001294	0.86
	HEMBB1001314	F-HEMBB1001314	0.76
15	HEMBB1001331	F-HEMBB1001331	0.44
	HEMBB1001339	F-HEMBB1001339	0.40
	HEMBB1001346	F-HEMBB1001346	0.83
	HEMBB1001364	F-HEMBB1001364	0.69
20	HEMBB1001369	F-HEMBB1001369	0.47
	HEMBB1001384	F-HEMBB1001384	0.80
	HEMBB1001387	F-HEMBB1001387	0.36
	HEMBB1001394	F-HEMBB1001394	0.94
25	HEMBB1001410	F-HEMBB1001410	0.51
	HEMBB1001426	F-HEMBB1001426	0.80
	HEMBB1001429	F-HEMBB1001429	0.91
	HEMBB1001449	F-HEMBB1001449	0.31
30	HEMBB1001482	F-HEMBB1001482	0.44
	HEMBB1001531	F-HEMBB1001531	0.58
	HEMBB1001562	F-HEMBB1001562	0.65
	HEMBB1001564	F-HEMBB1001564	0.46
35	HEMBB1001585	F-HEMBB1001585	0.74
	HEMBB1001603	F-HEMBB1001603	0.81
	HEMBB1001635	F-HEMBB1001635	0.46
	HEMBB1001653	F-HEMBB1001653	0.33
40	HEMBB1001665	F-HEMBB1001665	0.39
	HEMBB1001668	F-HEMBB1001668	0.38
	HEMBB1001673	F-HEMBB1001673	0.83
	HEMBB1001684	F-HEMBB1001684	0.44
45	HEMBB1001685	F-HEMBB1001685	0.90
	HEMBB1001695	F-HEMBB1001695	0.92
	HEMBB1001707	F-HEMBB1001707	0.51
	HEMBB1001736	F-HEMBB1001736	0.94
50	HEMBB1001760	F-HEMBB1001760	0.88
	HEMBB1001785	F-HEMBB1001785	0.74
	HEMBB1001812	F-HEMBB1001812	0.33
	HEMBB1001816	F-HEMBB1001816	0.41
	HEMBB1001831	F-HEMBB1001831	0.93
55	HEMBB1001834	F-HEMBB1001834	0.78
	HEMBB1001839	F-HEMBB1001839	0.32

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	HEMBB1001869	F-HEMBB1001869	0.48
	HEMBB1001872	F-HEMBB1001872	0.93
	HEMBB1001874	F-HEMBB1001874	0.31
5	HEMBB1001905	F-HEMBB1001905	0.87
	HEMBB1001906	F-HEMBB1001906	0.88
	HEMBB1001908	F-HEMBB1001908	0.69
	HEMBB1001910	F-HEMBB1001910	0.77
10	HEMBB1001915	F-HEMBB1001915	0.76
	HEMBB1001945	F-HEMBB1001945	0.64
	HEMBB1001947	F-HEMBB1001947	0.94
	HEMBB1001950	F-HEMBB1001950	0.73
15	HEMBB1001957	F-HEMBB1001957	0.64
	HEMBB1001962	F-HEMBB1001962	0.90
	HEMBB1001990	F-HEMBB1001990	0.83
	HEMBB1002044	F-HEMBB1002044	0.82
20	HEMBB1002050	F-HEMBB1002050	0.91
	HEMBB1002068	F-HEMBB1002068	0.48
	HEMBB1002134	F-HEMBB1002134	0.80
	HEMBB1002142	F-HEMBB1002142	0.39
25	HEMBB1002152	F-HEMBB1002152	0.31
	HEMBB1002193	F-HEMBB1002193	0.35
	HEMBB1002217	F-HEMBB1002217	0.49
	HEMBB1002218	F-HEMBB1002218	0.32
30	HEMBB1002249	F-HEMBB1002249	0.72
	HEMBB1002300	F-HEMBB1002300	0.75
	HEMBB1002327	F-HEMBB1002327	0.86
	HEMBB1002329	F-HEMBB1002329	0.31
35	HEMBB1002340	F-HEMBB1002340	0.42
	HEMBB1002342	F-HEMBB1002342	0.76
	HEMBB1002358	F-HEMBB1002358	0.70
	HEMBB1002359	F-HEMBB1002359	0.75
40	HEMBB1002383	F-HEMBB1002383	0.78
	HEMBB1002409	F-HEMBB1002409	0.52
	HEMBB1002415	F-HEMBB1002415	0.82
	HEMBB1002442	F-HEMBB1002442	0.31
45	HEMBB1002457	F-HEMBB1002457	0.46
	HEMBB1002489	F-HEMBB1002489	0.69
	HEMBB1002492	F-HEMBB1002492	0.68
	HEMBB1002495	F-HEMBB1002495	0.94
50	HEMBB1002502	F-HEMBB1002502	0.39
	HEMBB1002510	F-HEMBB1002510	0.94
	HEMBB1002545	F-HEMBB1002545	0.44
	HEMBB1002550	F-HEMBB1002550	0.57
	HEMBB1002600	F-HEMBB1002600	0.91
55	HEMBB1002607	F-HEMBB1002607	0.83
	HEMBB1002614	F-HEMBB1002614	0.75

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	HEMBB1002684	F-HEMBB1002684	0.84
	HEMBB1002692	F-HEMBB1002692	0.52
	HEMBB1002697	F-HEMBB1002697	0.86
5	HEMBB1002705	F-HEMBB1002705	0.32
	MAMMA1000019	F-MAMMA1000019	0.48
	MAMMA1000020	F-MAMMA1000020	0.36
	MAMMA1000025	F-MAMMA1000025	0.31
10	MAMMA1000055	F-MAMMA1000055	0.39
	MAMMA1000057	F-MAMMA1000057	0.35
	MAMMA1000069	F-MAMMA1000069	0.78
	MAMMA1000084	F-MAMMA1000084	0.61
15	MAMMA1000085	F-MAMMA1000085	0.72
	MAMMA1000139	F-MAMMA1000139	0.33
	MAMMA1000143	F-MAMMA1000143	0.40
	MAMMA1000163	F-MAMMA1000163	0.94
20	MAMMA1000171	F-MAMMA1000171	0.78
	MAMMA1000173	F-MAMMA1000173	0.94
	MAMMA1000183	F-MAMMA1000183	0.77
	MAMMA1000251	F-MAMMA1000251	0.94
25	MAMMA1000257	F-MAMMA1000257	0.75
	MAMMA1000277	F-MAMMA1000277	0.94
	MAMMA1000278	F-MAMMA1000278	0.35
	MAMMA1000279	F-MAMMA1000279	0.62
30	MAMMA1000284	F-MAMMA1000284	0.35
	MAMMA1000309	F-MAMMA1000309	0.53
	MAMMA1000312	F-MAMMA1000312	0.68
	MAMMA1000313	F-MAMMA1000313	0.32
35	MAMMA1000339	F-MAMMA1000339	0.35
	MAMMA1000361	F-MAMMA1000361	0.61
	MAMMA1000372	F-MAMMA1000372	0.60
	MAMMA1000388	F-MAMMA1000388	0.93
40	MAMMA1000395	F-MAMMA1000395	0.94
	MAMMA1000410	F-MAMMA1000410	0.94
	MAMMA1000416	F-MAMMA1000416	0.89
	MAMMA1000421	F-MAMMA1000421	0.50
45	MAMMA1000422	F-MAMMA1000422	0.92
	MAMMA1000429	F-MAMMA1000429	0.92
	MAMMA1000458	F-MAMMA1000458	0.88
	MAMMA1000468	F-MAMMA1000468	0.60
50	MAMMA1000472	F-MAMMA1000472	0.33
	MAMMA1000490	F-MAMMA1000490	0.34
	MAMMA1000524	F-MAMMA1000524	0.39
	MAMMA1000567	F-MAMMA1000567	0.40
	MAMMA1000583	F-MAMMA1000583	0.45
55	MAMMA1000612	F-MAMMA1000612	0.89
	MAMMA1000623	F-MAMMA1000623	0.44

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	MAMMA1000625	F-MAMMA1000625	0.52
	MAMMA1000664	F-MAMMA1000664	0.42
	MAMMA1000670	F-MAMMA1000670	0.94
5	MAMMA1000672	F-MAMMA1000672	0.44
	MAMMA1000684	F-MAMMA1000684	0.94
	MAMMA1000713	F-MAMMA1000713	0.88
	MAMMA1000731	F-MAMMA1000731	0.67
10	MAMMA1000734	F-MAMMA1000734	0.40
	MAMMA1000738	F-MAMMA1000738	0.93
	MAMMA1000746	F-MAMMA1000746	0.48
	MAMMA1000760	F-MAMMA1000760	0.94
15	MAMMA1000776	F-MAMMA1000776	0.94
	MAMMA1000824	F-MAMMA1000824	0.81
	MAMMA1000831	F-MAMMA1000831	0.39
	MAMMA1000841	F-MAMMA1000841	0.41
20	MAMMA1000842	F-MAMMA1000842	0.61
	MAMMA1000843	F-MAMMA1000843	0.48
	MAMMA1000856	F-MAMMA1000856	0.31
	MAMMA1000859	F-MAMMA1000859	0.44
25	MAMMA1000865	F-MAMMA1000865	0.94
	MAMMA1000875	F-MAMMA1000875	0.49
	MAMMA1000897	F-MAMMA1000897	0.94
	MAMMA1000906	F-MAMMA1000906	0.45
30	MAMMA1000908	F-MAMMA1000908	0.39
	MAMMA1000914	F-MAMMA1000914	0.94
	MAMMA1000921	F-MAMMA1000921	0.34
	MAMMA1000956	F-MAMMA1000956	0.39
35	MAMMA1000968	F-MAMMA1000968	0.35
	MAMMA1000979	F-MAMMA1000979	0.68
	MAMMA1001008	F-MAMMA1001008	0.36
	MAMMA1001021	F-MAMMA1001021	0.48
40	MAMMA1001041	F-MAMMA1001041	0.34
	MAMMA1001059	F-MAMMA1001059	0.94
	MAMMA1001073	F-MAMMA1001073	0.94
	MAMMA1001075	F-MAMMA1001075	0.94
45	MAMMA1001078	F-MAMMA1001078	0.52
	MAMMA1001080	F-MAMMA1001080	0.87
	MAMMA1001091	F-MAMMA1001091	0.53
	MAMMA1001105	F-MAMMA1001105	0.94
50	MAMMA1001110	F-MAMMA1001110	0.78
	MAMMA1001126	F-MAMMA1001126	0.85
	MAMMA1001139	F-MAMMA1001139	0.38
	MAMMA1001143	F-MAMMA1001143	0.79
	MAMMA1001154	F-MAMMA1001154	0.31
55	MAMMA1001181	F-MAMMA1001181	0.69
	MAMMA1001198	F-MAMMA1001198	0.88

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	MAMMA1001202	F-MAMMA1001202	0.38
	MAMMA1001215	F-MAMMA1001215	0.94
5	MAMMA1001222	F-MAMMA1001222	0.89
	MAMMA1001244	F-MAMMA1001244	0.87
	MAMMA1001259	F-MAMMA1001259	0.91
	MAMMA1001260	F-MAMMA1001260	0.75
10	MAMMA1001271	F-MAMMA1001271	0.77
	MAMMA1001292	F-MAMMA1001292	0.94
	MAMMA1001296	F-MAMMA1001296	0.75
	MAMMA1001305	F-MAMMA1001305	0.66
15	MAMMA1001343	F-MAMMA1001343	0.38
	MAMMA1001346	F-MAMMA1001346	0.81
	MAMMA1001388	F-MAMMA1001388	0.94
	MAMMA1001411	F-MAMMA1001411	0.42
	MAMMA1001419	F-MAMMA1001419	0.45
20	MAMMA1001465	F-MAMMA1001465	0.94
	MAMMA1001476	F-MAMMA1001476	0.90
	MAMMA1001487	F-MAMMA1001487	0.78
	MAMMA1001510	F-MAMMA1001510	0.82
25	MAMMA1001522	F-MAMMA1001522	0.63
	MAMMA1001551	F-MAMMA1001551	0.81
	MAMMA1001576	F-MAMMA1001576	0.94
	MAMMA1001600	F-MAMMA1001600	0.72
30	MAMMA1001604	F-MAMMA1001604	0.87
	MAMMA1001620	F-MAMMA1001620	0.43
	MAMMA1001627	F-MAMMA1001627	0.39
	MAMMA1001630	F-MAMMA1001630	0.46
35	MAMMA1001633	F-MAMMA1001633	0.58
	MAMMA1001635	F-MAMMA1001635	0.89
	MAMMA1001649	F-MAMMA1001649	0.62
	MAMMA1001654	F-MAMMA1001654	0.94
40	MAMMA1001692	F-MAMMA1001692	0.83
	MAMMA1001730	F-MAMMA1001730	0.48
	MAMMA1001735	F-MAMMA1001735	0.94
	MAMMA1001743	F-MAMMA1001743	0.94
45	MAMMA1001744	F-MAMMA1001744	0.33
	MAMMA1001751	F-MAMMA1001751	0.94
	MAMMA1001754	F-MAMMA1001754	0.47
	MAMMA1001757	F-MAMMA1001757	0.38
50	MAMMA1001764	F-MAMMA1001764	0.57
	MAMMA1001768	F-MAMMA1001768	0.85
	MAMMA1001771	F-MAMMA1001771	0.39
	MAMMA1001783	F-MAMMA1001783	0.61
	MAMMA1001785	F-MAMMA1001785	0.41
55	MAMMA1001790	F-MAMMA1001790	0.69
	MAMMA1001812	F-MAMMA1001812	0.32

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	MAMMA1001817	F-MAMMA1001817	0.55
	MAMMA1001824	F-MAMMA1001824	0.57
	MAMMA1001837	F-MAMMA1001837	0.35
5	MAMMA1001848	F-MAMMA1001848	0.38
	MAMMA1001851	F-MAMMA1001851	0.46
	MAMMA1001858	F-MAMMA1001858	0.53
	MAMMA1001864	F-MAMMA1001864	0.32
10	MAMMA1001868	F-MAMMA1001868	0.48
	MAMMA1001874	F-MAMMA1001874	0.94
	MAMMA1001956	F-MAMMA1001956	0.47
	MAMMA1001969	F-MAMMA1001969	0.31
15	MAMMA1001970	F-MAMMA1001970	0.34
	MAMMA1002009	F-MAMMA1002009	0.45
	MAMMA1002011	F-MAMMA1002011	0.94
	MAMMA1002033	F-MAMMA1002033	0.33
20	MAMMA1002041	F-MAMMA1002041	0.86
	MAMMA1002042	F-MAMMA1002042	0.88
	MAMMA1002047	F-MAMMA1002047	0.41
	MAMMA1002068	F-MAMMA1002068	0.38
25	MAMMA1002143	F-MAMMA1002143	0.91
	MAMMA1002153	F-MAMMA1002153	0.94
	MAMMA1002156	F-MAMMA1002156	0.73
	MAMMA1002170	F-MAMMA1002170	0.43
30	MAMMA1002174	F-MAMMA1002174	0.69
	MAMMA1002198	F-MAMMA1002198	0.65
	MAMMA1002209	F-MAMMA1002209	0.80
	MAMMA1002219	F-MAMMA1002219	0.85
35	MAMMA1002236	F-MAMMA1002236	0.55
	MAMMA1002243	F-MAMMA1002243	0.50
	MAMMA1002268	F-MAMMA1002268	0.43
	MAMMA1002269	F-MAMMA1002269	0.33
40	MAMMA1002292	F-MAMMA1002292	0.76
	MAMMA1002294	F-MAMMA1002294	0.94
	MAMMA1002297	F-MAMMA1002297	0.91
	MAMMA1002308	F-MAMMA1002308	0.68
45	MAMMA1002312	F-MAMMA1002312	0.77
	MAMMA1002317	F-MAMMA1002317	0.46
	MAMMA1002319	F-MAMMA1002319	0.31
	MAMMA1002329	F-MAMMA1002329	0.34
50	MAMMA1002333	F-MAMMA1002333	0.65
	MAMMA1002351	F-MAMMA1002351	0.89
	MAMMA1002353	F-MAMMA1002353	0.94
	MAMMA1002355	F-MAMMA1002355	0.55
	MAMMA1002356	F-MAMMA1002356	0.32
55	MAMMA1002362	F-MAMMA1002362	0.83
	MAMMA1002380	F-MAMMA1002380	0.94

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	MAMMA1002384	F-MAMMA1002384	0.42
	MAMMA1002385	F-MAMMA1002385	0.82
	MAMMA1002413	F-MAMMA1002413	0.94
5	MAMMA1002427	F-MAMMA1002427	0.40
	MAMMA1002434	F-MAMMA1002434	0.74
	MAMMA1002454	F-MAMMA1002454	0.82
	MAMMA1002461	F-MAMMA1002461	0.49
10	MAMMA1002470	F-MAMMA1002470	0.89
	MAMMA1002485	F-MAMMA1002485	0.55
	MAMMA1002524	F-MAMMA1002524	0.33
	MAMMA1002530	F-MAMMA1002530	0.75
15	MAMMA1002554	F-MAMMA1002554	0.41
	MAMMA1002585	F-MAMMA1002585	0.31
	MAMMA1002590	F-MAMMA1002590	0.72
	MAMMA1002598	F-MAMMA1002598	0.76
20	MAMMA1002617	F-MAMMA1002617	0.49
	MAMMA1002619	F-MAMMA1002619	0.88
	MAMMA1002637	F-MAMMA1002637	0.94
	MAMMA1002650	F-MAMMA1002650	0.54
25	MAMMA1002655	F-MAMMA1002655	0.39
	MAMMA1002665	F-MAMMA1002665	0.33
	MAMMA1002671	F-MAMMA1002671	0.94
	MAMMA1002673	F-MAMMA1002673	0.70
30	MAMMA1002684	F-MAMMA1002684	0.94
	MAMMA1002685	F-MAMMA1002685	0.88
	MAMMA1002699	F-MAMMA1002699	0.94
	MAMMA1002711	F-MAMMA1002711	0.39
35	MAMMA1002769	F-MAMMA1002769	0.88
	MAMMA1002775	F-MAMMA1002775	0.81
	MAMMA1002782	F-MAMMA1002782	0.87
	MAMMA1002796	F-MAMMA1002796	0.40
40	MAMMA1002807	F-MAMMA1002807	0.64
	MAMMA1002842	F-MAMMA1002842	0.94
	MAMMA1002843	F-MAMMA1002843	0.32
	MAMMA1002868	F-MAMMA1002868	0.54
45	MAMMA1002869	F-MAMMA1002869	0.94
	MAMMA1002881	F-MAMMA1002881	0.94
	MAMMA1002886	F-MAMMA1002886	0.61
	MAMMA1002890	F-MAMMA1002890	0.94
50	MAMMA1002895	F-MAMMA1002895	0.94
	MAMMA1002937	F-MAMMA1002937	0.91
	MAMMA1002938	F-MAMMA1002938	0.78
	MAMMA1002947	F-MAMMA1002947	0.94
	MAMMA1002964	F-MAMMA1002964	0.34
55	MAMMA1002987	F-MAMMA1002987	0.74
	MAMMA1003011	F-MAMMA1003011	0.90

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	MAMMA1003013	F-MAMMA1003013	0.36
	MAMMA1003015	F-MAMMA1003015	0.92
5	MAMMA1003035	F-MAMMA1003035	0.94
	MAMMA1003044	F-MAMMA1003044	0.61
	MAMMA1003047	F-MAMMA1003047	0.94
	MAMMA1003049	F-MAMMA1003049	0.31
10	MAMMA1003056	F-MAMMA1003056	0.75
	MAMMA1003057	F-MAMMA1003057	0.33
	MAMMA1003066	F-MAMMA1003066	0.38
	MAMMA1003099	F-MAMMA1003099	0.79
15	MAMMA1003104	F-MAMMA1003104	0.44
	MAMMA1003113	F-MAMMA1003113	0.90
	MAMMA1003127	F-MAMMA1003127	0.53
	MAMMA1003135	F-MAMMA1003135	0.94
20	MAMMA1003146	F-MAMMA1003146	0.88
	MAMMA1003150	F-MAMMA1003150	0.73
	MAMMA1003166	F-MAMMA1003166	0.94
	NT2RM1000001	F-NT2RM1000001	0.66
	NT2RM1000018	F-NT2RM1000018	0.55
25	NT2RM1000032	F-NT2RM1000032	0.74
	NT2RM1000035	F-NT2RM1000035	0.52
	NT2RM1000037	F-NT2RM1000037	0.94
	NT2RM1000039	F-NT2RM1000039	0.77
30	NT2RM1000055	F-NT2RM1000055	0.89
	NT2RM1000059	F-NT2RM1000059	0.41
	NT2RM1000062	F-NT2RM1000062	0.65
	NT2RM1000080	F-NT2RM1000080	0.61
35	NT2RM1000086	F-NT2RM1000086	0.94
	NT2RM1000092	F-NT2RM1000092	0.94
	NT2RM1000118	F-NT2RM1000118	0.76
	NT2RM1000119	F-NT2RM1000119	0.41
40	NT2RM1000127	F-NT2RM1000127	0.94
	NT2RM1000131	F-NT2RM1000131	0.90
	NT2RM1000132	F-NT2RM1000132	0.94
	NT2RM1000153	F-NT2RM1000153	0.90
45	NT2RM1000186	F-NT2RM1000186	0.78
	NT2RM1000187	F-NT2RM1000187	0.54
	NT2RM1000199	F-NT2RM1000199	0.33
	NT2RM1000242	F-NT2RM1000242	0.78
50	NT2RM1000244	F-NT2RM1000244	0.31
	NT2RM1000252	F-NT2RM1000252	0.76
	NT2RM1000256	F-NT2RM1000256	0.94
	NT2RM1000257	F-NT2RM1000257	0.89
55	NT2RM1000260	F-NT2RM1000260	0.42
	NT2RM1000271	F-NT2RM1000271	0.74
	NT2RM1000272	F-NT2RM1000272	0.78

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	NT2RM1000280	F-NT2RM1000280	0.94
	NT2RM1000300	F-NT2RM1000300	0.47
	NT2RM1000314	F-NT2RM1000314	0.61
5	NT2RM1000318	F-NT2RM1000318	0.94
	NT2RM1000341	F-NT2RM1000341	0.70
	NT2RM1000354	F-NT2RM1000354	0.82
	NT2RM1000355	F-NT2RM1000355	0.94
10	NT2RM1000365	F-NT2RM1000365	0.31
	NT2RM1000377	F-NT2RM1000377	0.87
	NT2RM1000388	F-NT2RM1000388	0.94
	NT2RM1000394	F-NT2RM1000394	0.58
15	NT2RM1000399	F-NT2RM1000399	0.86
	NT2RM1000421	F-NT2RM1000421	0.39
	NT2RM1000430	F-NT2RM1000430	0.94
	NT2RM1000499	F-NT2RM1000499	0.44
20	NT2RM1000539	F-NT2RM1000539	0.87
	NT2RM1000553	F-NT2RM1000553	0.88
	NT2RM1000555	F-NT2RM1000555	0.37
	NT2RM1000563	F-NT2RM1000563	0.63
25	NT2RM1000623	F-NT2RM1000623	0.34
	NT2RM1000648	F-NT2RM1000648	0.94
	NT2RM1000661	F-NT2RM1000661	0.61
	NT2RM1000666	F-NT2RM1000666	0.94
30	NT2RM1000669	F-NT2RM1000669	0.94
	NT2RM1000672	F-NT2RM1000672	0.53
	NT2RM1000691	F-NT2RM1000691	0.38
	NT2RM1000699	F-NT2RM1000699	0.32
35	NT2RM1000702	F-NT2RM1000702	0.74
	NT2RM1000725	F-NT2RM1000725	0.75
	NT2RM1000741	F-NT2RM1000741	0.94
	NT2RM1000742	F-NT2RM1000742	0.54
40	NT2RM1000746	F-NT2RM1000746	0.94
	NT2RM1000770	F-NT2RM1000770	0.48
	NT2RM1000772	F-NT2RM1000772	0.39
	NT2RM1000780	F-NT2RM1000780	0.66
	NT2RM1000781	F-NT2RM1000781	0.49
45	NT2RM1000800	F-NT2RM1000800	0.72
	NT2RM1000802	F-NT2RM1000802	0.89
	NT2RM1000811	F-NT2RM1000811	0.53
	NT2RM1000826	F-NT2RM1000826	0.39
50	NT2RM1000829	F-NT2RM1000829	0.63
	NT2RM1000833	F-NT2RM1000833	0.94
	NT2RM1000850	F-NT2RM1000850	0.89
	NT2RM1000852	F-NT2RM1000852	0.88
55	NT2RM1000857	F-NT2RM1000857	0.58
	NT2RM1000867	F-NT2RM1000867	0.90

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	NT2RM1000874	F-NT2RM1000874	0.89
	NT2RM1000882	F-NT2RM1000882	0.63
	NT2RM1000883	F-NT2RM1000883	0.71
5	NT2RM1000885	F-NT2RM1000885	0.89
	NT2RM1000894	F-NT2RM1000894	0.57
	NT2RM1000898	F-NT2RM1000898	0.87
	NT2RM1000905	F-NT2RM1000905	0.94
10	NT2RM1000924	F-NT2RM1000924	0.88
	NT2RM1000927	F-NT2RM1000927	0.70
	NT2RM1000962	F-NT2RM1000962	0.84
	NT2RM1000978	F-NT2RM1000978	0.39
15	NT2RM1001003	F-NT2RM1001003	0.81
	NT2RM1001008	F-NT2RM1001008	0.94
	NT2RM1001043	F-NT2RM1001043	0.94
	NT2RM1001044	F-NT2RM1001044	0.94
20	NT2RM1001059	F-NT2RM1001059	0.94
	NT2RM1001066	F-NT2RM1001066	0.94
	NT2RM1001072	F-NT2RM1001072	0.77
	NT2RM1001074	F-NT2RM1001074	0.94
25	NT2RM1001082	F-NT2RM1001082	0.94
	NT2RM1001085	F-NT2RM1001085	0.83
	NT2RM1001092	F-NT2RM1001092	0.77
	NT2RM1001102	F-NT2RM1001102	0.59
30	NT2RM1001105	F-NT2RM1001105	0.94
	NT2RM1001112	F-NT2RM1001112	0.50
	NT2RM1001115	F-NT2RM1001115	0.32
	NT2RM1001139	F-NT2RM1001139	0.77
35	NT2RM2000006	F-NT2RM2000006	0.34
	NT2RM2000013	F-NT2RM2000013	0.70
	NT2RM2000030	F-NT2RM2000030	0.89
	NT2RM2000032	F-NT2RM2000032	0.36
40	NT2RM2000042	F-NT2RM2000042	0.32
	NT2RM2000092	F-NT2RM2000092	0.55
	NT2RM2000093	F-NT2RM2000093	0.33
	NT2RM2000101	F-NT2RM2000101	0.77
45	NT2RM2000124	F-NT2RM2000124	0.94
	NT2RM2000191	F-NT2RM2000191	0.80
	NT2RM2000192	F-NT2RM2000192	0.93
	NT2RM2000239	F-NT2RM2000239	0.68
50	NNNNNNNNNNNN	F-NNNNNNNNNNNN	0.94
	NT2RM2000250	F-NT2RM2000250	0.94
	NT2RM2000259	F-NT2RM2000259	0.68
	NT2RM2000260	F-NT2RM2000260	0.37
	NT2RM2000287	F-NT2RM2000287	0.46
55	NT2RM2000322	F-NT2RM2000322	0.83
	NT2RM2000359	F-NT2RM2000359	0.94

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	NT2RM2000363	F-NT2RM2000363	0.91
	NT2RM2000368	F-NT2RM2000368	0.34
5	NT2RM2000371	F-NT2RM2000371	0.94
	NT2RM2000374	F-NT2RM2000374	0.65
	NT2RM2000395	F-NT2RM2000395	0.33
	NT2RM2000402	F-NT2RM2000402	0.80
10	NT2RM2000407	F-NT2RM2000407	0.88
	NT2RM2000420	F-NT2RM2000420	0.92
	NT2RM2000422	F-NT2RM2000422	0.49
	NT2RM2000452	F-NT2RM2000452	0.93
15	NT2RM2000469	F-NT2RM2000469	0.39
	NT2RM2000490	F-NT2RM2000490	0.90
	NT2RM2000502	F-NT2RM2000502	0.64
	NT2RM2000504	F-NT2RM2000504	0.71
20	NT2RM2000522	F-NT2RM2000522	0.91
	NT2RM2000540	F-NT2RM2000540	0.87
	NT2RM2000556	F-NT2RM2000556	0.91
	NT2RM2000566	F-NT2RM2000566	0.39
25	NT2RM2000567	F-NT2RM2000567	0.44
	NT2RM2000569	F-NT2RM2000569	0.49
	NT2RM2000577	F-NT2RM2000577	0.45
	NT2RM2000581	F-NT2RM2000581	0.72
	NT2RM2000588	F-NT2RM2000588	0.31
30	NT2RM2000594	F-NT2RM2000594	0.79
	NT2RM2000599	F-NT2RM2000599	0.80
	NT2RM2000612	F-NT2RM2000612	0.75
35	NT2RM2000623	F-NT2RM2000623	0.72
	NT2RM2000624	F-NT2RM2000624	0.94
	NT2RM2000635	F-NT2RM2000635	0.73
	NT2RM2000636	F-NT2RM2000636	0.45
	NT2RM2000639	F-NT2RM2000639	0.43
40	NT2RM2000649	F-NT2RM2000649	0.74
	NT2RM2000669	F-NT2RM2000669	0.94
	NT2RM2000691	F-NT2RM2000691	0.84
	NT2RM2000714	F-NT2RM2000714	0.92
45	NT2RM2000718	F-NT2RM2000718	0.52
	NT2RM2000735	F-NT2RM2000735	0.33
	NT2RM2000740	F-NT2RM2000740	0.94
	NT2RM2000795	F-NT2RM2000795	0.44
50	NT2RM2000821	F-NT2RM2000821	0.33
	NT2RM2000837	F-NT2RM2000837	0.57
	NT2RM2000951	F-NT2RM2000951	0.32
	NT2RM2000952	F-NT2RM2000952	0.50
55	NT2RM2000984	F-NT2RM2000984	0.76
	NT2RM2001004	F-NT2RM2001004	0.55
	NT2RM2001035	F-NT2RM2001035	0.82

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	NT2RM2001065	F-NT2RM2001065	0.65
	NT2RM2001100	F-NT2RM2001100	0.89
	NT2RM2001105	F-NT2RM2001105	0.94
5	NT2RM2001131	F-NT2RM2001131	0.94
	NT2RM2001141	F-NT2RM2001141	0.74
	NT2RM2001152	F-NT2RM2001152	0.33
	NT2RM2001177	F-NT2RM2001177	0.32
10	NT2RM2001194	F-NT2RM2001194	0.83
	NT2RM2001196	F-NT2RM2001196	0.42
	NT2RM2001201	F-NT2RM2001201	0.90
	NT2RM2001221	F-NT2RM2001221	0.39
15	NT2RM2001238	F-NT2RM2001238	0.94
	NT2RM2001243	F-NT2RM2001243	0.44
	NT2RM2001247	F-NT2RM2001247	0.42
	NT2RM2001256	F-NT2RM2001256	0.60
20	NT2RM2001291	F-NT2RM2001291	0.39
	NT2RM2001306	F-NT2RM2001306	0.81
	NT2RM2001312	F-NT2RM2001312	0.64
	NT2RM2001319	F-NT2RM2001319	0.53
25	NT2RM2001324	F-NT2RM2001324	0.94
	NT2RM2001345	F-NT2RM2001345	0.94
	NT2RM2001360	F-NT2RM2001360	0.69
	NT2RM2001370	F-NT2RM2001370	0.44
30	NT2RM2001393	F-NT2RM2001393	0.94
	NT2RM2001420	F-NT2RM2001420	0.46
	NT2RM2001424	F-NT2RM2001424	0.94
	NT2RM2001499	F-NT2RM2001499	0.63
35	NT2RM2001504	F-NT2RM2001504	0.94
	NT2RM2001524	F-NT2RM2001524	0.76
	NT2RM2001544	F-NT2RM2001544	0.59
	NT2RM2001547	F-NT2RM2001547	0.48
40	NT2RM2001575	F-NT2RM2001575	0.91
	NT2RM2001582	F-NT2RM2001582	0.34
	NT2RM2001588	F-NT2RM2001588	0.48
	NT2RM2001592	F-NT2RM2001592	0.64
45	NT2RM2001605	F-NT2RM2001605	0.47
	NT2RM2001613	F-NT2RM2001613	0.61
	NT2RM2001632	F-NT2RM2001632	0.31
	NT2RM2001635	F-NT2RM2001635	0.39
50	NT2RM2001637	F-NT2RM2001637	0.71
	NT2RM2001641	F-NT2RM2001641	0.73
	NT2RM2001648	F-NT2RM2001648	0.44
	NT2RM2001652	F-NT2RM2001652	0.40
	NT2RM2001659	F-NT2RM2001659	0.35
55	NT2RM2001664	F-NT2RM2001664	0.53
	NT2RM2001668	F-NT2RM2001668	0.64

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	NT2RM2001670	F-NT2RM2001670	0.59
	NT2RM2001671	F-NT2RM2001671	0.41
	NT2RM2001675	F-NT2RM2001675	0.51
5	NT2RM2001681	F-NT2RM2001681	0.33
	NT2RM2001688	F-NT2RM2001688	0.74
	NT2RM2001695	F-NT2RM2001695	0.31
	NT2RM2001696	F-NT2RM2001696	0.94
10	NT2RM2001698	F-NT2RM2001698	0.69
	NT2RM2001699	F-NT2RM2001699	0.85
	NT2RM2001700	F-NT2RM2001700	0.71
	NT2RM2001706	F-NT2RM2001706	0.38
15	NT2RM2001716	F-NT2RM2001716	0.78
	NT2RM2001718	F-NT2RM2001718	0.81
	NT2RM2001723	F-NT2RM2001723	0.83
	NT2RM2001727	F-NT2RM2001727	0.87
20	NT2RM2001730	F-NT2RM2001730	0.94
	NT2RM2001743	F-NT2RM2001743	0.94
	NT2RM2001753	F-NT2RM2001753	0.75
	NT2RM2001760	F-NT2RM2001760	0.75
25	NT2RM2001768	F-NT2RM2001768	0.71
	NT2RM2001771	F-NT2RM2001771	0.33
	NT2RM2001782	F-NT2RM2001782	0.34
	NT2RM2001784	F-NT2RM2001784	0.45
30	NT2RM2001785	F-NT2RM2001785	0.94
	NT2RM2001797	F-NT2RM2001797	0.74
	NT2RM2001800	F-NT2RM2001800	0.90
	NT2RM2001803	F-NT2RM2001803	0.36
35	NT2RM2001805	F-NT2RM2001805	0.81
	NT2RM2001813	F-NT2RM2001813	0.94
	NT2RM2001823	F-NT2RM2001823	0.94
	NT2RM2001839	F-NT2RM2001839	0.39
40	NT2RM2001840	F-NT2RM2001840	0.94
	NT2RM2001855	F-NT2RM2001855	0.92
	NT2RM2001867	F-NT2RM2001867	0.82
	NT2RM2001879	F-NT2RM2001879	0.86
45	NT2RM2001886	F-NT2RM2001886	0.91
	NT2RM2001896	F-NT2RM2001896	0.94
	NT2RM2001903	F-NT2RM2001903	0.61
	NT2RM2001930	F-NT2RM2001930	0.94
50	NT2RM2001935	F-NT2RM2001935	0.77
	NT2RM2001936	F-NT2RM2001936	0.94
	NT2RM2001950	F-NT2RM2001950	0.34
	NT2RM2001982	F-NT2RM2001982	0.48
	NT2RM2001983	F-NT2RM2001983	0.59
55	NT2RM2001989	F-NT2RM2001989	0.94
	NT2RM2001997	F-NT2RM2001997	0.90

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	NT2RM2001998	F-NT2RM2001998	0.72
	NT2RM2002004	F-NT2RM2002004	0.46
	NT2RM2002014	F-NT2RM2002014	0.32
5	NT2RM2002030	F-NT2RM2002030	0.54
	NT2RM2002049	F-NT2RM2002049	0.59
	NT2RM2002055	F-NT2RM2002055	0.94
	NT2RM2002088	F-NT2RM2002088	0.47
10	NT2RM2002091	F-NT2RM2002091	0.78
	NT2RM2002100	F-NT2RM2002100	0.87
	NT2RM2002109	F-NT2RM2002109	0.86
	NT2RM2002128	F-NT2RM2002128	0.42
15	NT2RM2002142	F-NT2RM2002142	0.94
	NT2RM2002145	F-NT2RM2002145	0.94
	NT2RM2002178	F-NT2RM2002178	0.44
	NT2RM2002580	F-NT2RM2002580	0.94
20	NT2RM4000024	F-NT2RM4000024	0.76
	NT2RM4000027	F-NT2RM4000027	0.40
	NT2RM4000030	F-NT2RM4000030	0.66
	NT2RM4000061	F-NT2RM4000061	0.33
25	NT2RM4000104	F-NT2RM4000104	0.93
	NT2RM4000139	F-NT2RM4000139	0.87
	NT2RM4000155	F-NT2RM4000155	0.51
	NT2RM4000156	F-NT2RM4000156	0.39
30	NT2RM4000167	F-NT2RM4000167	0.50
	NT2RM4000169	F-NT2RM4000169	0.44
	NT2RM4000191	F-NT2RM4000191	0.94
	NT2RM4000197	F-NT2RM4000197	0.41
35	NT2RM4000199	F-NT2RM4000199	0.76
	NT2RM4000202	F-NT2RM4000202	0.47
	NT2RM4000210	F-NT2RM4000210	0.44
	NT2RM4000215	F-NT2RM4000215	0.94
40	NT2RM4000229	F-NT2RM4000229	0.93
	NT2RM4000233	F-NT2RM4000233	0.74
	NT2RM4000251	F-NT2RM4000251	0.48
	NT2RM4000290	F-NT2RM4000290	0.94
45	NT2RM4000324	F-NT2RM4000324	0.32
	NT2RM4000344	F-NT2RM4000344	0.94
	NT2RM4000349	F-NT2RM4000349	0.78
	NT2RM4000354	F-NT2RM4000354	0.36
50	NT2RM4000356	F-NT2RM4000356	0.58
	NT2RM4000386	F-NT2RM4000386	0.90
	NT2RM4000395	F-NT2RM4000395	0.47
	NT2RM4000421	F-NT2RM4000421	0.46
	NT2RM4000433	F-NT2RM4000433	0.48
55	NT2RM4000457	F-NT2RM4000457	0.75
	NT2RM4000471	F-NT2RM4000471	0.92

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	NT2RM4000486	F-NT2RM4000486	0.55
	NT2RM4000496	F-NT2RM4000496	0.62
5	NT2RM4000511	F-NT2RM4000511	0.74
	NT2RM4000514	F-NT2RM4000514	0.72
	NT2RM4000515	F-NT2RM4000515	0.66
	NT2RM4000520	F-NT2RM4000520	0.69
10	NT2RM4000531	F-NT2RM4000531	0.62
	NT2RM4000534	F-NT2RM4000534	0.94
	NT2RM4000585	F-NT2RM4000585	0.52
	NT2RM4000590	F-NT2RM4000590	0.94
15	NT2RM4000595	F-NT2RM4000595	0.44
	NT2RM4000603	F-NT2RM4000603	0.94
	NT2RM4000611	F-NT2RM4000611	0.46
	NT2RM4000616	F-NT2RM4000616	0.94
20	NT2RM4000674	F-NT2RM4000674	0.80
	NT2RM4000689	F-NT2RM4000689	0.58
	NT2RM4000698	F-NT2RM4000698	0.71
	NT2RM4000700	F-NT2RM4000700	0.59
25	NT2RM4000712	F-NT2RM4000712	0.94
	NT2RM4000717	F-NT2RM4000717	0.69
	NT2RM4000733	F-NT2RM4000733	0.94
	NT2RM4000734	F-NT2RM4000734	0.42
	NT2RM4000741	F-NT2RM4000741	0.83
30	NT2RM4000751	F-NT2RM4000751	0.91
	NT2RM4000764	F-NT2RM4000764	0.35
	NT2RM4000778	F-NT2RM4000778	0.90
	NT2RM4000787	F-NT2RM4000787	0.40
35	NT2RM4000790	F-NT2RM4000790	0.62
	NT2RM4000795	F-NT2RM4000795	0.94
	NT2RM4000796	F-NT2RM4000796	0.93
	NT2RM4000798	F-NT2RM4000798	0.61
40	NT2RM4000813	F-NT2RM4000813	0.58
	NT2RM4000820	F-NT2RM4000820	0.39
	NT2RM4000833	F-NT2RM4000833	0.80
	NT2RM4000848	F-NT2RM4000848	0.73
45	NT2RM4000852	F-NT2RM4000852	0.74
	NT2RM4000887	F-NT2RM4000887	0.42
	NT2RM4000895	F-NT2RM4000895	0.47
	NT2RM4000950	F-NT2RM4000950	0.53
50	NT2RM4000971	F-NT2RM4000971	0.73
	NT2RM4000996	F-NT2RM4000996	0.42
	NT2RM4001002	F-NT2RM4001002	0.57
	NT2RM4001032	F-NT2RM4001032	0.94
55	NT2RM4001047	F-NT2RM4001047	0.76
	NT2RM4001054	F-NT2RM4001054	0.91
	NT2RM4001084	F-NT2RM4001084	0.94

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	NT2RM4001092	F-NT2RM4001092	0.94
	NT2RM4001116	F-NT2RM4001116	0.36
	NT2RM4001140	F-NT2RM4001140	0.82
5	NT2RM4001151	F-NT2RM4001151	0.94
	NT2RM4001155	F-NT2RM4001155	0.94
	NT2RM4001187	F-NT2RM4001187	0.61
	NT2RM4001191	F-NT2RM4001191	0.77
10	NT2RM4001200	F-NT2RM4001200	0.72
	NT2RM4001203	F-NT2RM4001203	0.60
	NT2RM4001204	F-NT2RM4001204	0.89
	NT2RM4001217	F-NT2RM4001217	0.93
15	NT2RM4001256	F-NT2RM4001256	0.89
	NT2RM4001258	F-NT2RM4001258	0.94
	NT2RM4001309	F-NT2RM4001309	0.88
	NT2RM4001316	F-NT2RM4001316	0.38
20	NT2RM4001320	F-NT2RM4001320	0.33
	NT2RM4001340	F-NT2RM4001340	0.83
	NT2RM4001344	F-NT2RM4001344	0.94
	NT2RM4001347	F-NT2RM4001347	0.88
25	NT2RM4001371	F-NT2RM4001371	0.61
	NT2RM4001382	F-NT2RM4001382	0.93
	NT2RM4001384	F-NT2RM4001384	0.32
	NT2RM4001410	F-NT2RM4001410	0.94
30	NT2RM4001411	F-NT2RM4001411	0.47
	NT2RM4001412	F-NT2RM4001412	0.85
	NT2RM4001444	F-NT2RM4001444	0.94
	NT2RM4001454	F-NT2RM4001454	0.72
35	NT2RM4001455	F-NT2RM4001455	0.39
	NT2RM4001483	F-NT2RM4001483	0.76
	NT2RM4001489	F-NT2RM4001489	0.94
	NT2RM4001522	F-NT2RM4001522	0.88
40	NT2RM4001565	F-NT2RM4001565	0.78
	NT2RM4001566	F-NT2RM4001566	0.87
	NT2RM4001569	F-NT2RM4001569	0.70
	NT2RM4001582	F-NT2RM4001582	0.76
45	NT2RM4001592	F-NT2RM4001592	0.31
	NT2RM4001594	F-NT2RM4001594	0.86
	NT2RM4001597	F-NT2RM4001597	0.91
	NT2RM4001611	F-NT2RM4001611	0.91
	NT2RM4001629	F-NT2RM4001629	0.72
50	NT2RM4001650	F-NT2RM4001650	0.37
	NT2RM4001662	F-NT2RM4001662	0.70
	NT2RM4001666	F-NT2RM4001666	0.37
	NT2RM4001682	F-NT2RM4001682	0.91
55	NT2RM4001710	F-NT2RM4001710	0.45
	NT2RM4001714	F-NT2RM4001714	0.94

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	NT2RM4001715	F-NT2RM4001715	0.33
	NT2RM4001731	F-NT2RM4001731	0.94
	NT2RM4001741	F-NT2RM4001741	0.87
5	NT2RM4001746	F-NT2RM4001746	0.81
	NT2RM4001758	F-NT2RM4001758	0.59
	NT2RM4001783	F-NT2RM4001783	0.68
	NT2RM4001813	F-NT2RM4001813	0.39
10	NT2RM4001819	F-NT2RM4001819	0.43
	NT2RM4001823	F-NT2RM4001823	0.94
	NT2RM4001828	F-NT2RM4001828	0.83
	NT2RM4001836	F-NT2RM4001836	0.61
15	NT2RM4001841	F-NT2RM4001841	0.37
	NT2RM4001842	F-NT2RM4001842	0.68
	NT2RM4001865	F-NT2RM4001865	0.91
	NT2RM4001876	F-NT2RM4001876	0.88
20	NT2RM4001880	F-NT2RM4001880	0.43
	NT2RM4001905	F-NT2RM4001905	0.94
	NT2RM4001922	F-NT2RM4001922	0.48
	NT2RM4001938	F-NT2RM4001938	0.67
25	NT2RM4001940	F-NT2RM4001940	0.92
	NT2RM4001965	F-NT2RM4001965	0.94
	NT2RM4001969	F-NT2RM4001969	0.88
	NT2RM4001979	F-NT2RM4001979	0.42
30	NT2RM4001987	F-NT2RM4001987	0.86
	NT2RM4002013	F-NT2RM4002013	0.94
	NT2RM4002018	F-NT2RM4002018	0.92
	NT2RM4002034	F-NT2RM4002034	0.43
35	NT2RM4002044	F-NT2RM4002044	0.42
	NT2RM4002054	F-NT2RM4002054	0.88
	NT2RM4002055	F-NT2RM4002055	0.32
	NT2RM4002062	F-NT2RM4002062	0.87
40	NT2RM4002063	F-NT2RM4002063	0.49
	NT2RM4002066	F-NT2RM4002066	0.39
	NT2RM4002073	F-NT2RM4002073	0.78
	NT2RM4002075	F-NT2RM4002075	0.87
	NT2RM4002093	F-NT2RM4002093	0.82
45	NT2RM4002109	F-NT2RM4002109	0.52
	NT2RM4002128	F-NT2RM4002128	0.68
	NT2RM4002140	F-NT2RM4002140	0.94
	NT2RM4002145	F-NT2RM4002145	0.94
50	NT2RM4002146	F-NT2RM4002146	0.89
	NT2RM4002161	F-NT2RM4002161	0.49
	NT2RM4002174	F-NT2RM4002174	0.36
	NT2RM4002189	F-NT2RM4002189	0.34
55	NT2RM4002194	F-NT2RM4002194	0.73
	NT2RM4002205	F-NT2RM4002205	0.94

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	NT2RM4002213	F-NT2RM4002213	0. 52
	NT2RM4002226	F-NT2RM4002226	0. 48
	NT2RM4002251	F-NT2RM4002251	0. 94
5	NT2RM4002256	F-NT2RM4002256	0. 93
	NT2RM4002266	F-NT2RM4002266	0. 73
	NT2RM4002294	F-NT2RM4002294	0. 86
	NT2RM4002301	F-NT2RM4002301	0. 40
10	NT2RM4002323	F-NT2RM4002323	0. 81
	NT2RM4002339	F-NT2RM4002339	0. 32
	NT2RM4002344	F-NT2RM4002344	0. 87
	NT2RM4002373	F-NT2RM4002373	0. 41
15	NT2RM4002374	F-NT2RM4002374	0. 33
	NT2RM4002398	F-NT2RM4002398	0. 94
	NT2RM4002409	F-NT2RM4002409	0. 82
	NT2RM4002446	F-NT2RM4002446	0. 61
20	NT2RM4002452	F-NT2RM4002452	0. 47
	NT2RM4002457	F-NT2RM4002457	0. 92
	NT2RM4002460	F-NT2RM4002460	0. 61
	NT2RM4002482	F-NT2RM4002482	0. 94
25	NT2RM4002493	F-NT2RM4002493	0. 39
	NT2RM4002527	F-NT2RM4002527	0. 64
	NT2RM4002534	F-NT2RM4002534	0. 76
	NT2RM4002558	F-NT2RM4002558	0. 62
30	NT2RM4002565	F-NT2RM4002565	0. 54
	NT2RM4002571	F-NT2RM4002571	0. 90
	NT2RM4002593	F-NT2RM4002593	0. 91
	NT2RM4002594	F-NT2RM4002594	0. 70
35	NT2RM4002623	F-NT2RM4002623	0. 81
	NT2RP1000018	F-NT2RP1000018	0. 31
	NT2RP1000035	F-NT2RP1000035	0. 49
	NT2RP1000040	F-NT2RP1000040	0. 45
40	NT2RP1000063	F-NT2RP1000063	0. 90
	NT2RP1000086	F-NT2RP1000086	0. 89
	NT2RP1000101	F-NT2RP1000101	0. 76
	NT2RP1000111	F-NT2RP1000111	0. 94
45	NT2RP1000112	F-NT2RP1000112	0. 45
	NT2RP1000124	F-NT2RP1000124	0. 94
	NT2RP1000130	F-NT2RP1000130	0. 69
	NT2RP1000163	F-NT2RP1000163	0. 90
50	NT2RP1000170	F-NT2RP1000170	0. 94
	NT2RP1000174	F-NT2RP1000174	0. 74
	NT2RP1000191	F-NT2RP1000191	0. 76
	NT2RP1000202	F-NT2RP1000202	0. 60
55	NT2RP1000243	F-NT2RP1000243	0. 81
	NT2RP1000259	F-NT2RP1000259	0. 79
	NT2RP1000272	F-NT2RP1000272	0. 94

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	NT2RP1000324	F-NT2RP1000324	0.32
	NT2RP1000326	F-NT2RP1000326	0.94
	NT2RP1000333	F-NT2RP1000333	0.94
5	NT2RP1000348	F-NT2RP1000348	0.94
	NT2RP1000357	F-NT2RP1000357	0.87
	NT2RP1000358	F-NT2RP1000358	0.79
	NT2RP1000363	F-NT2RP1000363	0.40
10	NT2RP1000376	F-NT2RP1000376	0.61
	NT2RP1000409	F-NT2RP1000409	0.85
	NT2RP1000413	F-NT2RP1000413	0.42
	NT2RP1000416	F-NT2RP1000416	0.68
15	NT2RP1000418	F-NT2RP1000418	0.88
	NT2RP1000439	F-NT2RP1000439	0.69
	NT2RP1000443	F-NT2RP1000443	0.59
	NT2RP1000460	F-NT2RP1000460	0.86
20	NT2RP1000470	F-NT2RP1000470	0.56
	NT2RP1000478	F-NT2RP1000478	0.87
	NT2RP1000481	F-NT2RP1000481	0.58
	NT2RP1000493	F-NT2RP1000493	0.34
25	NT2RP1000513	F-NT2RP1000513	0.89
	NT2RP1000522	F-NT2RP1000522	0.34
	NT2RP1000547	F-NT2RP1000547	0.89
	NT2RP1000574	F-NT2RP1000574	0.74
30	NT2RP1000577	F-NT2RP1000577	0.53
	NT2RP1000581	F-NT2RP1000581	0.66
	NT2RP1000609	F-NT2RP1000609	0.90
	NT2RP1000629	F-NT2RP1000629	0.94
35	NT2RP1000630	F-NT2RP1000630	0.93
	NT2RP1000677	F-NT2RP1000677	0.94
	NT2RP1000688	F-NT2RP1000688	0.94
	NT2RP1000695	F-NT2RP1000695	0.89
40	NT2RP1000701	F-NT2RP1000701	0.89
	NT2RP1000721	F-NT2RP1000721	0.91
	NT2RP1000730	F-NT2RP1000730	0.94
	NT2RP1000733	F-NT2RP1000733	0.90
45	NT2RP1000738	F-NT2RP1000738	0.64
	NT2RP1000746	F-NT2RP1000746	0.92
	NT2RP1000767	F-NT2RP1000767	0.82
	NT2RP1000782	F-NT2RP1000782	0.94
50	NT2RP1000796	F-NT2RP1000796	0.33
	NT2RP1000825	F-NT2RP1000825	0.74
	NT2RP1000833	F-NT2RP1000833	0.94
	NT2RP1000834	F-NT2RP1000834	0.88
	NT2RP1000836	F-NT2RP1000836	0.59
55	NT2RP1000846	F-NT2RP1000846	0.46
	NT2RP1000851	F-NT2RP1000851	0.82

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	NT2RP1000856	F-NT2RP1000856	0.94
	NT2RP1000860	F-NT2RP1000860	0.60
5	NT2RP1000902	F-NT2RP1000902	0.42
	NT2RP1000915	F-NT2RP1000915	0.90
	NT2RP1000916	F-NT2RP1000916	0.67
	NT2RP1000943	F-NT2RP1000943	0.77
10	NT2RP1000944	F-NT2RP1000944	0.94
	NT2RP1000947	F-NT2RP1000947	0.38
	NT2RP1000954	F-NT2RP1000954	0.59
	NT2RP1000958	F-NT2RP1000958	0.59
15	NT2RP1000959	F-NT2RP1000959	0.74
	NT2RP1000966	F-NT2RP1000966	0.93
	NT2RP1000980	F-NT2RP1000980	0.31
	NT2RP1000988	F-NT2RP1000988	0.53
20	NT2RP1001011	F-NT2RP1001011	0.65
	NT2RP1001013	F-NT2RP1001013	0.34
	NT2RP1001014	F-NT2RP1001014	0.94
	NT2RP1001033	F-NT2RP1001033	0.40
25	NT2RP1001073	F-NT2RP1001073	0.74
	NT2RP1001079	F-NT2RP1001079	0.48
	NT2RP1001080	F-NT2RP1001080	0.91
	NT2RP1001113	F-NT2RP1001113	0.94
30	NT2RP1001173	F-NT2RP1001173	0.57
	NT2RP1001177	F-NT2RP1001177	0.75
	NT2RP1001185	F-NT2RP1001185	0.94
	NT2RP1001199	F-NT2RP1001199	0.42
35	NT2RP1001247	F-NT2RP1001247	0.67
	NT2RP1001248	F-NT2RP1001248	0.89
	NT2RP1001253	F-NT2RP1001253	0.94
	NT2RP1001286	F-NT2RP1001286	0.59
40	NT2RP1001294	F-NT2RP1001294	0.81
	NT2RP1001302	F-NT2RP1001302	0.86
	NT2RP1001310	F-NT2RP1001310	0.91
	NT2RP1001311	F-NT2RP1001311	0.87
45	NT2RP1001313	F-NT2RP1001313	0.91
	NT2RP1001361	F-NT2RP1001361	0.83
	NT2RP1001385	F-NT2RP1001385	0.36
	NT2RP1001395	F-NT2RP1001395	0.84
50	NT2RP1001410	F-NT2RP1001410	0.72
	NT2RP1001424	F-NT2RP1001424	0.81
	NT2RP1001432	F-NT2RP1001432	0.81
	NT2RP1001449	F-NT2RP1001449	0.77
	NT2RP1001457	F-NT2RP1001457	0.92
55	NT2RP1001466	F-NT2RP1001466	0.44
	NT2RP1001475	F-NT2RP1001475	0.53
	NT2RP1001482	F-NT2RP1001482	0.34

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	NT2RP1001494	F-NT2RP1001494	0.93
	NT2RP1001543	F-NT2RP1001543	0.94
	NT2RP1001546	F-NT2RP1001546	0.94
5	NT2RP1001569	F-NT2RP1001569	0.93
	NT2RP1001616	F-NT2RP1001616	0.46
	NT2RP1001665	F-NT2RP1001665	0.94
	NT2RP2000001	F-NT2RP2000001	0.94
10	NT2RP2000006	F-NT2RP2000006	0.74
	NT2RP2000007	F-NT2RP2000007	0.94
	NT2RP2000008	F-NT2RP2000008	0.83
	NT2RP2000032	F-NT2RP2000032	0.94
15	NT2RP2000040	F-NT2RP2000040	0.92
	NT2RP2000045	F-NT2RP2000045	0.94
	NT2RP2000054	F-NT2RP2000054	0.53
	NT2RP2000056	F-NT2RP2000056	0.42
20	NT2RP2000067	F-NT2RP2000067	0.88
	NT2RP2000070	F-NT2RP2000070	0.48
	NT2RP2000079	F-NT2RP2000079	0.85
	NT2RP2000088	F-NT2RP2000088	0.94
25	NT2RP2000091	F-NT2RP2000091	0.79
	NT2RP2000097	F-NT2RP2000097	0.66
	NT2RP2000114	F-NT2RP2000114	0.86
	NT2RP2000120	F-NT2RP2000120	0.48
30	NT2RP2000126	F-NT2RP2000126	0.77
	NT2RP2000133	F-NT2RP2000133	0.64
	NT2RP2000147	F-NT2RP2000147	0.94
	NT2RP2000153	F-NT2RP2000153	0.87
35	NT2RP2000157	F-NT2RP2000157	0.48
	NT2RP2000161	F-NT2RP2000161	0.79
	NT2RP2000173	F-NT2RP2000173	0.75
	NT2RP2000175	F-NT2RP2000175	0.79
40	NT2RP2000195	F-NT2RP2000195	0.91
	NT2RP2000205	F-NT2RP2000205	0.94
	NT2RP2000208	F-NT2RP2000208	0.84
	NT2RP2000224	F-NT2RP2000224	0.52
45	NT2RP2000232	F-NT2RP2000232	0.33
	NT2RP2000233	F-NT2RP2000233	0.57
	NT2RP2000239	F-NT2RP2000239	0.52
	NT2RP2000248	F-NT2RP2000248	0.36
50	NT2RP2000274	F-NT2RP2000274	0.55
	NT2RP2000283	F-NT2RP2000283	0.61
	NT2RP2000288	F-NT2RP2000288	0.31
	NT2RP2000297	F-NT2RP2000297	0.78
	NT2RP2000298	F-NT2RP2000298	0.94
55	NT2RP2000310	F-NT2RP2000310	0.52
	NT2RP2000328	F-NT2RP2000328	0.75

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	NT2RP2000329	F-NT2RP2000329	0.94
	NT2RP2000346	F-NT2RP2000346	0.62
	NT2RP2000369	F-NT2RP2000369	0.87
5	NT2RP2000412	F-NT2RP2000412	0.75
	NT2RP2000414	F-NT2RP2000414	0.79
	NT2RP2000422	F-NT2RP2000422	0.46
	NT2RP2000438	F-NT2RP2000438	0.94
10	NT2RP2000448	F-NT2RP2000448	0.94
	NT2RP2000503	F-NT2RP2000503	0.94
	NT2RP2000510	F-NT2RP2000510	0.87
	NT2RP2000516	F-NT2RP2000516	0.42
15	NT2RP2000617	F-NT2RP2000617	0.94
	NT2RP2000634	F-NT2RP2000634	0.74
	NT2RP2000656	F-NT2RP2000656	0.68
	NT2RP2000658	F-NT2RP2000658	0.55
20	NT2RP2000668	F-NT2RP2000668	0.81
	NT2RP2000704	F-NT2RP2000704	0.88
	NT2RP2000710	F-NT2RP2000710	0.58
	NT2RP2000764	F-NT2RP2000764	0.59
25	NT2RP2000809	F-NT2RP2000809	0.51
	NT2RP2000812	F-NT2RP2000812	0.37
	NT2RP2000814	F-NT2RP2000814	0.66
	NT2RP2000816	F-NT2RP2000816	0.50
30	NT2RP2000819	F-NT2RP2000819	0.35
	NT2RP2000841	F-NT2RP2000841	0.93
	NT2RP2000845	F-NT2RP2000845	0.78
	NT2RP2000863	F-NT2RP2000863	0.41
35	NT2RP2000880	F-NT2RP2000880	0.79
	NT2RP2000892	F-NT2RP2000892	0.94
	NT2RP2000931	F-NT2RP2000931	0.89
	NT2RP2000932	F-NT2RP2000932	0.94
40	NT2RP2000938	F-NT2RP2000938	0.90
	NT2RP2000943	F-NT2RP2000943	0.61
	NT2RP2000965	F-NT2RP2000965	0.80
	NT2RP2000985	F-NT2RP2000985	0.94
45	NT2RP2001036	F-NT2RP2001036	0.86
	NT2RP2001044	F-NT2RP2001044	0.93
	NT2RP2001056	F-NT2RP2001056	0.77
	NT2RP2001065	F-NT2RP2001065	0.73
50	NT2RP2001070	F-NT2RP2001070	0.91
	NT2RP2001081	F-NT2RP2001081	0.94
	NT2RP2001094	F-NT2RP2001094	0.93
	NT2RP2001119	F-NT2RP2001119	0.31
	NT2RP2001127	F-NT2RP2001127	0.41
55	NT2RP2001137	F-NT2RP2001137	0.93
	NT2RP2001168	F-NT2RP2001168	0.71

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	NT2RP2001173	F-NT2RP2001173	0.94
	NT2RP2001174	F-NT2RP2001174	0.71
	NT2RP2001218	F-NT2RP2001218	0.76
5	NT2RP2001233	F-NT2RP2001233	0.31
	NT2RP2001245	F-NT2RP2001245	0.33
	NT2RP2001268	F-NT2RP2001268	0.61
	NT2RP2001327	F-NT2RP2001327	0.86
10	NT2RP2001328	F-NT2RP2001328	0.94
	NT2RP2001366	F-NT2RP2001366	0.52
	NT2RP2001378	F-NT2RP2001378	0.64
	NT2RP2001381	F-NT2RP2001381	0.80
15	NT2RP2001392	F-NT2RP2001392	0.69
	NT2RP2001394	F-NT2RP2001394	0.38
	NT2RP2001397	F-NT2RP2001397	0.79
	NT2RP2001420	F-NT2RP2001420	0.88
20	NT2RP2001427	F-NT2RP2001427	0.73
	NT2RP2001436	F-NT2RP2001436	0.32
	NT2RP2001440	F-NT2RP2001440	0.94
	NT2RP2001450	F-NT2RP2001450	0.38
25	NT2RP2001511	F-NT2RP2001511	0.53
	NT2RP2001520	F-NT2RP2001520	0.88
	NT2RP2001536	F-NT2RP2001536	0.64
	NT2RP2001560	F-NT2RP2001560	0.79
30	NT2RP2001576	F-NT2RP2001576	0.62
	NT2RP2001581	F-NT2RP2001581	0.48
	NT2RP2001597	F-NT2RP2001597	0.94
	NT2RP2001601	F-NT2RP2001601	0.33
35	NT2RP2001613	F-NT2RP2001613	0.41
	NT2RP2001628	F-NT2RP2001628	0.79
	NT2RP2001634	F-NT2RP2001634	0.87
	NT2RP2001660	F-NT2RP2001660	0.86
40	NT2RP2001675	F-NT2RP2001675	0.90
	NT2RP2001721	F-NT2RP2001721	0.32
	NT2RP2001748	F-NT2RP2001748	0.32
	NT2RP2001839	F-NT2RP2001839	0.83
45	NT2RP2001861	F-NT2RP2001861	0.33
	NT2RP2001876	F-NT2RP2001876	0.94
	NT2RP2001883	F-NT2RP2001883	0.90
	NT2RP2001898	F-NT2RP2001898	0.94
50	NT2RP2001900	F-NT2RP2001900	0.93
	NT2RP2001907	F-NT2RP2001907	0.94
	NT2RP2001946	F-NT2RP2001946	0.63
	NT2RP2001947	F-NT2RP2001947	0.75
	NT2RP2001969	F-NT2RP2001969	0.94
55	NT2RP2001976	F-NT2RP2001976	0.48
	NT2RP2001985	F-NT2RP2001985	0.44

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	NT2RP2001991	F-NT2RP2001991	0.39
	NT2RP2002025	F-NT2RP2002025	0.94
	NT2RP2002033	F-NT2RP2002033	0.40
5	NT2RP2002046	F-NT2RP2002046	0.56
	NT2RP2002058	F-NT2RP2002058	0.64
	NT2RP2002076	F-NT2RP2002076	0.40
	NT2RP2002078	F-NT2RP2002078	0.81
10	NT2RP2002079	F-NT2RP2002079	0.82
	NT2RP2002099	F-NT2RP2002099	0.92
	NT2RP2002154	F-NT2RP2002154	0.44
	NT2RP2002185	F-NT2RP2002185	0.94
15	NT2RP2002193	F-NT2RP2002193	0.48
	NT2RP2002208	F-NT2RP2002208	0.49
	NT2RP2002231	F-NT2RP2002231	0.61
	NT2RP2002235	F-NT2RP2002235	0.87
20	NT2RP2002252	F-NT2RP2002252	0.51
	NT2RP2002270	F-NT2RP2002270	0.78
	NT2RP2002292	F-NT2RP2002292	0.94
	NT2RP2002312	F-NT2RP2002312	0.33
25	NT2RP2002325	F-NT2RP2002325	0.53
	NT2RP2002333	F-NT2RP2002333	0.60
	NT2RP2002373	F-NT2RP2002373	0.91
	NT2RP2002385	F-NT2RP2002385	0.94
30	NT2RP2002408	F-NT2RP2002408	0.44
	NT2RP2002426	F-NT2RP2002426	0.54
	NT2RP2002442	F-NT2RP2002442	0.37
	NT2RP2002464	F-NT2RP2002464	0.79
35	NT2RP2002479	F-NT2RP2002479	0.92
	NT2RP2002498	F-NT2RP2002498	0.94
	NT2RP2002503	F-NT2RP2002503	0.90
	NT2RP2002520	F-NT2RP2002520	0.37
40	NT2RP2002537	F-NT2RP2002537	0.42
	NT2RP2002549	F-NT2RP2002549	0.75
	NT2RP2002595	F-NT2RP2002595	0.90
	NT2RP2002609	F-NT2RP2002609	0.33
45	NT2RP2002618	F-NT2RP2002618	0.52
	NT2RP2002621	F-NT2RP2002621	0.67
	NT2RP2002672	F-NT2RP2002672	0.43
	NT2RP2002701	F-NT2RP2002701	0.69
50	NT2RP2002706	F-NT2RP2002706	0.51
	NT2RP2002710	F-NT2RP2002710	0.94
	NT2RP2002769	F-NT2RP2002769	0.42
	NT2RP2002800	F-NT2RP2002800	0.47
55	NT2RP2002862	F-NT2RP2002862	0.88
	NT2RP2002880	F-NT2RP2002880	0.78
	NT2RP2002891	F-NT2RP2002891	0.69

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	NT2RP2002925	F-NT2RP2002925	0.65
	NT2RP2002928	F-NT2RP2002928	0.47
	NT2RP2002929	F-NT2RP2002929	0.94
5	NT2RP2002939	F-NT2RP2002939	0.94
	NT2RP2002954	F-NT2RP2002954	0.94
	NT2RP2002959	F-NT2RP2002959	0.45
	NT2RP2002979	F-NT2RP2002979	0.51
10	NT2RP2002980	F-NT2RP2002980	0.38
	NT2RP2002986	F-NT2RP2002986	0.34
	NT2RP2002993	F-NT2RP2002993	0.94
	NT2RP2003034	F-NT2RP2003034	0.34
15	NT2RP2003099	F-NT2RP2003099	0.46
	NT2RP2003108	F-NT2RP2003108	0.67
	NT2RP2003117	F-NT2RP2003117	0.57
	NT2RP2003121	F-NT2RP2003121	0.94
20	NT2RP2003125	F-NT2RP2003125	0.94
	NT2RP2003137	F-NT2RP2003137	0.60
	NT2RP2003157	F-NT2RP2003157	0.94
	NT2RP2003158	F-NT2RP2003158	0.75
25	NT2RP2003165	F-NT2RP2003165	0.90
	NT2RP2003177	F-NT2RP2003177	0.85
	NT2RP2003194	F-NT2RP2003194	0.94
	NT2RP2003228	F-NT2RP2003228	0.57
30	NT2RP2003243	F-NT2RP2003243	0.94
	NT2RP2003265	F-NT2RP2003265	0.68
	NT2RP2003272	F-NT2RP2003272	0.94
	NT2RP2003277	F-NT2RP2003277	0.73
35	NT2RP2003280	F-NT2RP2003280	0.94
	NT2RP2003286	F-NT2RP2003286	0.44
	NT2RP2003293	F-NT2RP2003293	0.42
	NT2RP2003295	F-NT2RP2003295	0.89
40	NT2RP2003297	F-NT2RP2003297	0.94
	NT2RP2003307	F-NT2RP2003307	0.79
	NT2RP2003308	F-NT2RP2003308	0.49
	NT2RP2003329	F-NT2RP2003329	0.33
45	NT2RP2003347	F-NT2RP2003347	0.79
	NT2RP2003367	F-NT2RP2003367	0.94
	NT2RP2003391	F-NT2RP2003391	0.90
	NT2RP2003393	F-NT2RP2003393	0.94
50	NT2RP2003401	F-NT2RP2003401	0.80
	NT2RP2003433	F-NT2RP2003433	0.40
	NT2RP2003445	F-NT2RP2003445	0.94
	NT2RP2003446	F-NT2RP2003446	0.40
	NT2RP2003466	F-NT2RP2003466	0.58
55	NT2RP2003480	F-NT2RP2003480	0.59
	NT2RP2003506	F-NT2RP2003506	0.94

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	NT2RP2003511	F-NT2RP2003511	0. 31
	NT2RP2003513	F-NT2RP2003513	0. 67
5	NT2RP2003533	F-NT2RP2003533	0. 57
	NT2RP2003543	F-NT2RP2003543	0. 94
	NT2RP2003564	F-NT2RP2003564	0. 88
	NT2RP2003567	F-NT2RP2003567	0. 69
10	NT2RP2003581	F-NT2RP2003581	0. 40
	NT2RP2003596	F-NT2RP2003596	0. 83
	NT2RP2003604	F-NT2RP2003604	0. 87
	NT2RP2003629	F-NT2RP2003629	0. 87
15	NT2RP2003643	F-NT2RP2003643	0. 94
	NT2RP2003687	F-NT2RP2003687	0. 31
	NT2RP2003691	F-NT2RP2003691	0. 34
	NT2RP2003702	F-NT2RP2003702	0. 80
20	NT2RP2003713	F-NT2RP2003713	0. 53
	NT2RP2003714	F-NT2RP2003714	0. 61
	NT2RP2003737	F-NT2RP2003737	0. 88
	NT2RP2003751	F-NT2RP2003751	0. 36
25	NT2RP2003760	F-NT2RP2003760	0. 62
	NT2RP2003764	F-NT2RP2003764	0. 94
	NT2RP2003769	F-NT2RP2003769	0. 69
	NT2RP2003777	F-NT2RP2003777	0. 93
30	NT2RP2003781	F-NT2RP2003781	0. 37
	NT2RP2003793	F-NT2RP2003793	0. 92
	NT2RP2003825	F-NT2RP2003825	0. 49
	NT2RP2003840	F-NT2RP2003840	0. 88
35	NT2RP2003857	F-NT2RP2003857	0. 34
	NT2RP2003952	F-NT2RP2003952	0. 89
	NT2RP2003976	F-NT2RP2003976	0. 33
	NT2RP2003981	F-NT2RP2003981	0. 64
	NT2RP2003984	F-NT2RP2003984	0. 41
40	NT2RP2003986	F-NT2RP2003986	0. 32
	NT2RP2004013	F-NT2RP2004013	0. 48
	NT2RP2004041	F-NT2RP2004041	0. 78
	NT2RP2004042	F-NT2RP2004042	0. 66
45	NT2RP2004066	F-NT2RP2004066	0. 56
	NT2RP2004081	F-NT2RP2004081	0. 94
	NT2RP2004098	F-NT2RP2004098	0. 39
	NT2RP2004124	F-NT2RP2004124	0. 75
50	NT2RP2004152	F-NT2RP2004152	0. 54
	NT2RP2004165	F-NT2RP2004165	0. 68
	NT2RP2004187	F-NT2RP2004187	0. 92
	NT2RP2004194	F-NT2RP2004194	0. 90
55	NT2RP2004196	F-NT2RP2004196	0. 94
	NT2RP2004226	F-NT2RP2004226	0. 80
	NT2RP2004239	F-NT2RP2004239	0. 63

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	NT2RP2004240	F-NT2RP2004240	0. 86
	NT2RP2004242	F-NT2RP2004242	0. 94
	NT2RP2004245	F-NT2RP2004245	0. 92
5	NT2RP2004316	F-NT2RP2004316	0. 33
	NT2RP2004364	F-NT2RP2004364	0. 75
	NT2RP2004365	F-NT2RP2004365	0. 43
	NT2RP2004366	F-NT2RP2004366	0. 32
10	NT2RP2004373	F-NT2RP2004373	0. 60
	NT2RP2004389	F-NT2RP2004389	0. 94
	NT2RP2004392	F-NT2RP2004392	0. 93
	NT2RP2004399	F-NT2RP2004399	0. 36
15	NT2RP2004463	F-NT2RP2004463	0. 43
	NT2RP2004476	F-NT2RP2004476	0. 80
	NT2RP2004538	F-NT2RP2004538	0. 94
	NT2RP2004551	F-NT2RP2004551	0. 47
20	NT2RP2004568	F-NT2RP2004568	0. 73
	NT2RP2004594	F-NT2RP2004594	0. 64
	NT2RP2004600	F-NT2RP2004600	0. 53
	NT2RP2004602	F-NT2RP2004602	0. 33
25	NT2RP2004614	F-NT2RP2004614	0. 34
	NT2RP2004655	F-NT2RP2004655	0. 77
	NT2RP2004664	F-NT2RP2004664	0. 94
	NT2RP2004689	F-NT2RP2004689	0. 83
30	NT2RP2004710	F-NT2RP2004710	0. 94
	NT2RP2004743	F-NT2RP2004743	0. 32
	NT2RP2004768	F-NT2RP2004768	0. 53
	NT2RP2004791	F-NT2RP2004791	0. 64
35	NT2RP2004799	F-NT2RP2004799	0. 42
	NT2RP2004802	F-NT2RP2004802	0. 88
	NT2RP2004816	F-NT2RP2004816	0. 78
	NT2RP2004841	F-NT2RP2004841	0. 61
40	NT2RP2004861	F-NT2RP2004861	0. 32
	NT2RP2004897	F-NT2RP2004897	0. 67
	NT2RP2004933	F-NT2RP2004933	0. 94
	NT2RP2004936	F-NT2RP2004936	0. 53
45	NT2RP2004959	F-NT2RP2004959	0. 78
	NT2RP2004978	F-NT2RP2004978	0. 86
	NT2RP2004985	F-NT2RP2004985	0. 42
	NT2RP2004999	F-NT2RP2004999	0. 55
50	NT2RP2005000	F-NT2RP2005000	0. 40
	NT2RP2005001	F-NT2RP2005001	0. 94
	NT2RP2005003	F-NT2RP2005003	0. 44
	NT2RP2005012	F-NT2RP2005012	0. 73
	NT2RP2005018	F-NT2RP2005018	0. 43
55	NT2RP2005022	F-NT2RP2005022	0. 34
	NT2RP2005037	F-NT2RP2005037	0. 94

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	NT2RP2005038	F-NT2RP2005038	0.56
	NT2RP2005116	F-NT2RP2005116	0.94
	NT2RP2005126	F-NT2RP2005126	0.69
5	NT2RP2005139	F-NT2RP2005139	0.94
	NT2RP2005140	F-NT2RP2005140	0.32
	NT2RP2005144	F-NT2RP2005144	0.39
	NT2RP2005147	F-NT2RP2005147	0.32
10	NT2RP2005159	F-NT2RP2005159	0.52
	NT2RP2005162	F-NT2RP2005162	0.86
	NT2RP2005168	F-NT2RP2005168	0.53
	NT2RP2005204	F-NT2RP2005204	0.94
15	NT2RP2005227	F-NT2RP2005227	0.53
	NT2RP2005239	F-NT2RP2005239	0.91
	NT2RP2005270	F-NT2RP2005270	0.72
	NT2RP2005276	F-NT2RP2005276	0.41
20	NT2RP2005287	F-NT2RP2005287	0.44
	NT2RP2005288	F-NT2RP2005288	0.82
	NT2RP2005315	F-NT2RP2005315	0.79
	NT2RP2005358	F-NT2RP2005358	0.94
25	NT2RP2005393	F-NT2RP2005393	0.41
	NT2RP2005436	F-NT2RP2005436	0.45
	NT2RP2005441	F-NT2RP2005441	0.88
	NT2RP2005453	F-NT2RP2005453	0.59
30	NT2RP2005457	F-NT2RP2005457	0.56
	NT2RP2005464	F-NT2RP2005464	0.72
	NT2RP2005465	F-NT2RP2005465	0.40
	NT2RP2005472	F-NT2RP2005472	0.42
35	NT2RP2005490	F-NT2RP2005490	0.52
	NT2RP2005495	F-NT2RP2005495	0.94
	NT2RP2005496	F-NT2RP2005496	0.52
	NT2RP2005498	F-NT2RP2005498	0.74
40	NT2RP2005509	F-NT2RP2005509	0.55
	NT2RP2005520	F-NT2RP2005520	0.54
	NT2RP2005525	F-NT2RP2005525	0.41
	NT2RP2005539	F-NT2RP2005539	0.94
	NT2RP2005540	F-NT2RP2005540	0.32
45	NT2RP2005549	F-NT2RP2005549	0.79
	NT2RP2005555	F-NT2RP2005555	0.63
	NT2RP2005557	F-NT2RP2005557	0.79
	NT2RP2005600	F-NT2RP2005600	0.76
50	NT2RP2005605	F-NT2RP2005605	0.56
	NT2RP2005620	F-NT2RP2005620	0.66
	NT2RP2005622	F-NT2RP2005622	0.37
	NT2RP2005635	F-NT2RP2005635	0.87
55	NT2RP2005637	F-NT2RP2005637	0.94
	NT2RP2005640	F-NT2RP2005640	0.87

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	NT2RP2005654	F-NT2RP2005654	0.94
	NT2RP2005669	F-NT2RP2005669	0.94
	NT2RP2005675	F-NT2RP2005675	0.72
5	NT2RP2005683	F-NT2RP2005683	0.34
	NT2RP2005690	F-NT2RP2005690	0.54
	NT2RP2005712	F-NT2RP2005712	0.93
	NT2RP2005722	F-NT2RP2005722	0.50
10	NT2RP2005723	F-NT2RP2005723	0.45
	NT2RP2005732	F-NT2RP2005732	0.54
	NT2RP2005748	F-NT2RP2005748	0.76
	NT2RP2005752	F-NT2RP2005752	0.47
15	NT2RP2005763	F-NT2RP2005763	0.87
	NT2RP2005767	F-NT2RP2005767	0.58
	NT2RP2005773	F-NT2RP2005773	0.49
	NT2RP2005775	F-NT2RP2005775	0.34
20	NT2RP2005781	F-NT2RP2005781	0.81
	NT2RP2005784	F-NT2RP2005784	0.94
	NT2RP2005804	F-NT2RP2005804	0.94
	NT2RP2005812	F-NT2RP2005812	0.90
25	NT2RP2005835	F-NT2RP2005835	0.94
	NT2RP2005853	F-NT2RP2005853	0.77
	NT2RP2005859	F-NT2RP2005859	0.68
	NT2RP2005868	F-NT2RP2005868	0.76
30	NT2RP2005886	F-NT2RP2005886	0.62
	NT2RP2005890	F-NT2RP2005890	0.79
	NT2RP2005901	F-NT2RP2005901	0.94
	NT2RP2005933	F-NT2RP2005933	0.55
35	NT2RP2006023	F-NT2RP2006023	0.47
	NT2RP2006038	F-NT2RP2006038	0.73
	NT2RP2006043	F-NT2RP2006043	0.50
	NT2RP2006052	F-NT2RP2006052	0.74
40	NT2RP2006069	F-NT2RP2006069	0.85
	NT2RP2006071	F-NT2RP2006071	0.94
	NT2RP2006100	F-NT2RP2006100	0.42
	NT2RP2006106	F-NT2RP2006106	0.94
45	NT2RP2006141	F-NT2RP2006141	0.92
	NT2RP2006186	F-NT2RP2006186	0.94
	NT2RP2006196	F-NT2RP2006196	0.32
	NT2RP2006200	F-NT2RP2006200	0.70
50	NT2RP2006219	F-NT2RP2006219	0.94
	NT2RP2006237	F-NT2RP2006237	0.59
	NT2RP2006238	F-NT2RP2006238	0.47
	NT2RP2006275	F-NT2RP2006275	0.89
	NT2RP2006312	F-NT2RP2006312	0.75
55	NT2RP2006333	F-NT2RP2006333	0.73
	NT2RP2006334	F-NT2RP2006334	0.72

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	NT2RP2006365	F-NT2RP2006365	0.48
	NT2RP2006436	F-NT2RP2006436	0.75
	NT2RP2006441	F-NT2RP2006441	0.61
5	NT2RP2006456	F-NT2RP2006456	0.60
	NT2RP2006464	F-NT2RP2006464	0.51
	NT2RP2006472	F-NT2RP2006472	0.76
	NT2RP2006565	F-NT2RP2006565	0.34
10	NT2RP2006571	F-NT2RP2006571	0.94
	NT2RP2006573	F-NT2RP2006573	0.35
	NT2RP3000002	F-NT2RP3000002	0.40
	NT2RP3000031	F-NT2RP3000031	0.49
15	NT2RP3000046	F-NT2RP3000046	0.90
	NT2RP3000047	F-NT2RP3000047	0.69
	NT2RP3000050	F-NT2RP3000050	0.78
	NT2RP3000068	F-NT2RP3000068	0.94
20	NT2RP3000072	F-NT2RP3000072	0.34
	NT2RP3000080	F-NT2RP3000080	0.32
	NT2RP3000085	F-NT2RP3000085	0.92
	NT2RP3000092	F-NT2RP3000092	0.40
25	NT2RP3000134	F-NT2RP3000134	0.42
	NT2RP3000142	F-NT2RP3000142	0.58
	NT2RP3000149	F-NT2RP3000149	0.83
	NT2RP3000197	F-NT2RP3000197	0.59
30	NT2RP3000207	F-NT2RP3000207	0.48
	NT2RP3000220	F-NT2RP3000220	0.75
	NT2RP3000251	F-NT2RP3000251	0.82
	NT2RP3000252	F-NT2RP3000252	0.88
35	NT2RP3000255	F-NT2RP3000255	0.94
	NT2RP3000267	F-NT2RP3000267	0.92
	NT2RP3000299	F-NT2RP3000299	0.94
	NT2RP3000312	F-NT2RP3000312	0.57
40	NT2RP3000320	F-NT2RP3000320	0.94
	NT2RP3000324	F-NT2RP3000324	0.32
	NT2RP3000333	F-NT2RP3000333	0.94
	NT2RP3000348	F-NT2RP3000348	0.32
45	NT2RP3000350	F-NT2RP3000350	0.67
	NT2RP3000359	F-NT2RP3000359	0.94
	NT2RP3000361	F-NT2RP3000361	0.94
	NT2RP3000366	F-NT2RP3000366	0.94
50	NT2RP3000393	F-NT2RP3000393	0.53
	NT2RP3000397	F-NT2RP3000397	0.89
	NT2RP3000403	F-NT2RP3000403	0.87
	NT2RP3000439	F-NT2RP3000439	0.77
	NT2RP3000456	F-NT2RP3000456	0.88
55	NT2RP3000484	F-NT2RP3000484	0.59
	NT2RP3000487	F-NT2RP3000487	0.32

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	NT2RP3000526	F-NT2RP3000526	0.32
	NT2RP3000527	F-NT2RP3000527	0.69
	NT2RP3000531	F-NT2RP3000531	0.56
5	NT2RP3000562	F-NT2RP3000562	0.44
	NT2RP3000590	F-NT2RP3000590	0.88
	NT2RP3000592	F-NT2RP3000592	0.92
	NT2RP3000596	F-NT2RP3000596	0.50
10	NT2RP3000599	F-NT2RP3000599	0.69
	NT2RP3000603	F-NT2RP3000603	0.94
	NT2RP3000605	F-NT2RP3000605	0.92
	NT2RP3000624	F-NT2RP3000624	0.71
15	NT2RP3000632	F-NT2RP3000632	0.43
	NT2RP3000644	F-NT2RP3000644	0.94
	NT2RP3000661	F-NT2RP3000661	0.60
	NT2RP3000665	F-NT2RP3000665	0.46
20	NT2RP3000690	F-NT2RP3000690	0.79
	NT2RP3000739	F-NT2RP3000739	0.94
	NT2RP3000753	F-NT2RP3000753	0.42
	NT2RP3000759	F-NT2RP3000759	0.94
25	NT2RP3000825	F-NT2RP3000825	0.73
	NT2RP3000826	F-NT2RP3000826	0.94
	NT2RP3000836	F-NT2RP3000836	0.39
	NT2RP3000841	F-NT2RP3000841	0.55
30	NT2RP3000845	F-NT2RP3000845	0.38
	NT2RP3000847	F-NT2RP3000847	0.67
	NT2RP3000850	F-NT2RP3000850	0.59
	NT2RP3000852	F-NT2RP3000852	0.39
	NT2RP3000859	F-NT2RP3000859	0.83
35	NT2RP3000868	F-NT2RP3000868	0.49
	NT2RP3000869	F-NT2RP3000869	0.94
	NT2RP3000901	F-NT2RP3000901	0.34
	NT2RP3000917	F-NT2RP3000917	0.73
40	NT2RP3000919	F-NT2RP3000919	0.94
	NT2RP3000968	F-NT2RP3000968	0.94
	NT2RP3000980	F-NT2RP3000980	0.61
	NT2RP3000994	F-NT2RP3000994	0.45
45	NT2RP3001004	F-NT2RP3001004	0.86
	NT2RP3001055	F-NT2RP3001055	0.38
	NT2RP3001057	F-NT2RP3001057	0.84
	NT2RP3001081	F-NT2RP3001081	0.57
50	NT2RP3001084	F-NT2RP3001084	0.94
	NT2RP3001096	F-NT2RP3001096	0.94
	NT2RP3001107	F-NT2RP3001107	0.88
	NT2RP3001109	F-NT2RP3001109	0.67
55	NT2RP3001111	F-NT2RP3001111	0.87
	NT2RP3001113	F-NT2RP3001113	0.40

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	NT2RP3001116	F-NT2RP3001116	0.73
	NT2RP3001119	F-NT2RP3001119	0.62
	NT2RP3001120	F-NT2RP3001120	0.59
5	NT2RP3001126	F-NT2RP3001126	0.94
	NT2RP3001133	F-NT2RP3001133	0.89
	NT2RP3001140	F-NT2RP3001140	0.59
	NT2RP3001147	F-NT2RP3001147	0.94
10	NT2RP3001150	F-NT2RP3001150	0.92
	NT2RP3001155	F-NT2RP3001155	0.94
	NT2RP3001176	F-NT2RP3001176	0.82
	NT2RP3001214	F-NT2RP3001214	0.41
15	NT2RP3001216	F-NT2RP3001216	0.32
	NT2RP3001221	F-NT2RP3001221	0.46
	NT2RP3001236	F-NT2RP3001236	0.79
	NT2RP3001239	F-NT2RP3001239	0.94
20	NT2RP3001253	F-NT2RP3001253	0.59
	NT2RP3001260	F-NT2RP3001260	0.94
	NT2RP3001268	F-NT2RP3001268	0.75
	NT2RP3001272	F-NT2RP3001272	0.94
25	NT2RP3001274	F-NT2RP3001274	0.94
	NT2RP3001297	F-NT2RP3001297	0.94
	NT2RP3001307	F-NT2RP3001307	0.87
	NT2RP3001325	F-NT2RP3001325	0.71
30	NT2RP3001338	F-NT2RP3001338	0.90
	NT2RP3001355	F-NT2RP3001355	0.40
	NT2RP3001356	F-NT2RP3001356	0.88
	NT2RP3001384	F-NT2RP3001384	0.91
35	NT2RP3001392	F-NT2RP3001392	0.42
	NT2RP3001396	F-NT2RP3001396	0.56
	NT2RP3001398	F-NT2RP3001398	0.94
	NT2RP3001399	F-NT2RP3001399	0.94
40	NT2RP3001407	F-NT2RP3001407	0.54
	NT2RP3001420	F-NT2RP3001420	0.74
	NT2RP3001426	F-NT2RP3001426	0.92
	NT2RP3001427	F-NT2RP3001427	0.40
45	NT2RP3001428	F-NT2RP3001428	0.94
	NT2RP3001447	F-NT2RP3001447	0.57
	NT2RP3001449	F-NT2RP3001449	0.62
	NT2RP3001453	F-NT2RP3001453	0.94
50	NT2RP3001457	F-NT2RP3001457	0.89
	NT2RP3001472	F-NT2RP3001472	0.82
	NT2RP3001490	F-NT2RP3001490	0.53
	NT2RP3001495	F-NT2RP3001495	0.94
	NT2RP3001497	F-NT2RP3001497	0.40
55	NT2RP3001529	F-NT2RP3001529	0.94
	NT2RP3001538	F-NT2RP3001538	0.93

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	NT2RP3001554	F-NT2RP3001554	0.91
	NT2RP3001587	F-NT2RP3001587	0.94
	NT2RP3001608	F-NT2RP3001608	0.94
5	NT2RP3001621	F-NT2RP3001621	0.78
	NT2RP3001629	F-NT2RP3001629	0.42
	NT2RP3001642	F-NT2RP3001642	0.94
	NT2RP3001646	F-NT2RP3001646	0.94
10	NT2RP3001671	F-NT2RP3001671	0.77
	NT2RP3001672	F-NT2RP3001672	0.88
	NT2RP3001676	F-NT2RP3001676	0.88
	NT2RP3001678	F-NT2RP3001678	0.44
15	NT2RP3001679	F-NT2RP3001679	0.44
	NT2RP3001688	F-NT2RP3001688	0.67
	NT2RP3001690	F-NT2RP3001690	0.58
	NT2RP3001698	F-NT2RP3001698	0.86
20	NT2RP3001708	F-NT2RP3001708	0.38
	NT2RP3001712	F-NT2RP3001712	0.75
	NT2RP3001716	F-NT2RP3001716	0.77
	NT2RP3001724	F-NT2RP3001724	0.65
25	NT2RP3001727	F-NT2RP3001727	0.84
	NT2RP3001730	F-NT2RP3001730	0.77
	NT2RP3001739	F-NT2RP3001739	0.78
	NT2RP3001753	F-NT2RP3001753	0.79
30	NT2RP3001764	F-NT2RP3001764	0.33
	NT2RP3001777	F-NT2RP3001777	0.87
	NT2RP3001792	F-NT2RP3001792	0.86
	NT2RP3001799	F-NT2RP3001799	0.79
35	NT2RP3001819	F-NT2RP3001819	0.31
	NT2RP3001844	F-NT2RP3001844	0.34
	NT2RP3001854	F-NT2RP3001854	0.94
	NT2RP3001855	F-NT2RP3001855	0.88
	NT2RP3001857	F-NT2RP3001857	0.41
40	NT2RP3001896	F-NT2RP3001896	0.94
	NT2RP3001915	F-NT2RP3001915	0.42
	NT2RP3001929	F-NT2RP3001929	0.49
	NT2RP3001931	F-NT2RP3001931	0.94
45	NT2RP3001938	F-NT2RP3001938	0.32
	NT2RP3001943	F-NT2RP3001943	0.70
	NT2RP3001944	F-NT2RP3001944	0.94
	NT2RP3001969	F-NT2RP3001969	0.54
50	NT2RP3002007	F-NT2RP3002007	0.56
	NT2RP3002014	F-NT2RP3002014	0.94
	NT2RP3002033	F-NT2RP3002033	0.94
	NT2RP3002045	F-NT2RP3002045	0.91
55	NT2RP3002054	F-NT2RP3002054	0.94
	NT2RP3002062	F-NT2RP3002062	0.62

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	NT2RP3002063	F-NT2RP3002063	0.34
	NT2RP3002081	F-NT2RP3002081	0.57
	NT2RP3002097	F-NT2RP3002097	0.72
5	NT2RP3002102	F-NT2RP3002102	0.90
	NT2RP3002108	F-NT2RP3002108	0.74
	NT2RP3002142	F-NT2RP3002142	0.61
	NT2RP3002146	F-NT2RP3002146	0.91
10	NT2RP3002147	F-NT2RP3002147	0.37
	NT2RP3002151	F-NT2RP3002151	0.90
	NT2RP3002163	F-NT2RP3002163	0.76
	NT2RP3002165	F-NT2RP3002165	0.89
15	NT2RP3002181	F-NT2RP3002181	0.78
	NT2RP3002244	F-NT2RP3002244	0.81
	NT2RP3002248	F-NT2RP3002248	0.36
	NT2RP3002255	F-NT2RP3002255	0.53
20	NT2RP3002273	F-NT2RP3002273	0.90
	NT2RP3002276	F-NT2RP3002276	0.39
	NT2RP3002303	F-NT2RP3002303	0.40
	NT2RP3002304	F-NT2RP3002304	0.44
25	NT2RP3002330	F-NT2RP3002330	0.94
	NT2RP3002343	F-NT2RP3002343	0.94
	NT2RP3002351	F-NT2RP3002351	0.94
	NT2RP3002377	F-NT2RP3002377	0.52
30	NT2RP3002399	F-NT2RP3002399	0.91
	NT2RP3002402	F-NT2RP3002402	0.33
	NT2RP3002455	F-NT2RP3002455	0.42
	NT2RP3002484	F-NT2RP3002484	0.52
35	NT2RP3002501	F-NT2RP3002501	0.57
	NT2RP3002512	F-NT2RP3002512	0.63
	NT2RP3002529	F-NT2RP3002529	0.74
	NT2RP3002545	F-NT2RP3002545	0.94
40	NT2RP3002549	F-NT2RP3002549	0.94
	NT2RP3002566	F-NT2RP3002566	0.74
	NT2RP3002587	F-NT2RP3002587	0.94
	NT2RP3002590	F-NT2RP3002590	0.37
45	NT2RP3002602	F-NT2RP3002602	0.39
	NT2RP3002603	F-NT2RP3002603	0.46
	NT2RP3002628	F-NT2RP3002628	0.31
	NT2RP3002631	F-NT2RP3002631	0.79
50	NT2RP3002650	F-NT2RP3002650	0.94
	NT2RP3002659	F-NT2RP3002659	0.93
	NT2RP3002660	F-NT2RP3002660	0.46
	NT2RP3002663	F-NT2RP3002663	0.79
55	NT2RP3002671	F-NT2RP3002671	0.34
	NT2RP3002682	F-NT2RP3002682	0.52
	NT2RP3002688	F-NT2RP3002688	0.82

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	NT2RP3002701	F-NT2RP3002701	0. 62
	NT2RP3002763	F-NT2RP3002763	0. 83
	NT2RP3002785	F-NT2RP3002785	0. 33
5	NT2RP3002818	F-NT2RP3002818	0. 91
	NT2RP3002861	F-NT2RP3002861	0. 31
	NT2RP3002869	F-NT2RP3002869	0. 47
	NT2RP3002876	F-NT2RP3002876	0. 58
10	NT2RP3002877	F-NT2RP3002877	0. 41
	NT2RP3002909	F-NT2RP3002909	0. 52
	NT2RP3002911	F-NT2RP3002911	0. 73
	NT2RP3002948	F-NT2RP3002948	0. 60
15	NT2RP3002953	F-NT2RP3002953	0. 37
	NT2RP3002969	F-NT2RP3002969	0. 47
	NT2RP3002972	F-NT2RP3002972	0. 87
	NT2RP3002985	F-NT2RP3002985	0. 55
20	NT2RP3002988	F-NT2RP3002988	0. 82
	NT2RP3003008	F-NT2RP3003008	0. 94
	NT2RP3003061	F-NT2RP3003061	0. 93
	NT2RP3003068	F-NT2RP3003068	0. 45
25	NT2RP3003071	F-NT2RP3003071	0. 76
	NT2RP3003078	F-NT2RP3003078	0. 40
	NT2RP3003101	F-NT2RP3003101	0. 41
	NT2RP3003139	F-NT2RP3003139	0. 43
30	NT2RP3003145	F-NT2RP3003145	0. 94
	NT2RP3003150	F-NT2RP3003150	0. 94
	NT2RP3003157	F-NT2RP3003157	0. 81
	NT2RP3003185	F-NT2RP3003185	0. 87
35	NT2RP3003193	F-NT2RP3003193	0. 94
	NT2RP3003197	F-NT2RP3003197	0. 74
	NT2RP3003203	F-NT2RP3003203	0. 94
	NT2RP3003204	F-NT2RP3003204	0. 74
40	NT2RP3003210	F-NT2RP3003210	0. 45
	NT2RP3003212	F-NT2RP3003212	0. 51
	NT2RP3003230	F-NT2RP3003230	0. 94
	NT2RP3003242	F-NT2RP3003242	0. 92
45	NT2RP3003251	F-NT2RP3003251	0. 93
	NT2RP3003278	F-NT2RP3003278	0. 83
	NT2RP3003282	F-NT2RP3003282	0. 67
	NT2RP3003290	F-NT2RP3003290	0. 62
50	NT2RP3003301	F-NT2RP3003301	0. 49
	NT2RP3003302	F-NT2RP3003302	0. 32
	NT2RP3003311	F-NT2RP3003311	0. 34
	NT2RP3003313	F-NT2RP3003313	0. 88
55	NT2RP3003327	F-NT2RP3003327	0. 88
	NT2RP3003330	F-NT2RP3003330	0. 94
	NT2RP3003344	F-NT2RP3003344	0. 67

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	NT2RP3003353	F-NT2RP3003353	0.65
	NT2RP3003377	F-NT2RP3003377	0.87
	NT2RP3003385	F-NT2RP3003385	0.94
5	NT2RP3003409	F-NT2RP3003409	0.41
	NT2RP3003411	F-NT2RP3003411	0.47
	NT2RP3003427	F-NT2RP3003427	0.33
	NT2RP3003490	F-NT2RP3003490	0.56
10	NT2RP3003491	F-NT2RP3003491	0.37
	NT2RP3003543	F-NT2RP3003543	0.92
	NT2RP3003552	F-NT2RP3003552	0.64
	NT2RP3003555	F-NT2RP3003555	0.94
15	NT2RP3003564	F-NT2RP3003564	0.86
	NT2RP3003589	F-NT2RP3003589	0.88
	NT2RP3003621	F-NT2RP3003621	0.49
	NT2RP3003656	F-NT2RP3003656	0.77
20	NT2RP3003659	F-NT2RP3003659	0.32
	NT2RP3003672	F-NT2RP3003672	0.49
	NT2RP3003680	F-NT2RP3003680	0.94
	NT2RP3003686	F-NT2RP3003686	0.78
25	NT2RP3003701	F-NT2RP3003701	0.36
	NT2RP3003716	F-NT2RP3003716	0.34
	NT2RP3003726	F-NT2RP3003726	0.72
	NT2RP3003795	F-NT2RP3003795	0.34
30	NT2RP3003805	F-NT2RP3003805	0.74
	NT2RP3003809	F-NT2RP3003809	0.73
	NT2RP3003825	F-NT2RP3003825	0.94
	NT2RP3003831	F-NT2RP3003831	0.52
35	NT2RP3003833	F-NT2RP3003833	0.31
	NT2RP3003846	F-NT2RP3003846	0.54
	NT2RP3003870	F-NT2RP3003870	0.91
	NT2RP3003876	F-NT2RP3003876	0.42
40	NT2RP3003914	F-NT2RP3003914	0.94
	NT2RP3003918	F-NT2RP3003918	0.90
	NT2RP3003932	F-NT2RP3003932	0.64
	NT2RP3003992	F-NT2RP3003992	0.94
45	NT2RP3004013	F-NT2RP3004013	0.60
	NT2RP3004041	F-NT2RP3004041	0.52
	NT2RP3004051	F-NT2RP3004051	0.75
	NT2RP3004078	F-NT2RP3004078	0.73
50	NT2RP3004093	F-NT2RP3004093	0.64
	NT2RP3004125	F-NT2RP3004125	0.94
	NT2RP3004155	F-NT2RP3004155	0.89
	NT2RP3004189	F-NT2RP3004189	0.46
55	NT2RP3004206	F-NT2RP3004206	0.59
	NT2RP3004207	F-NT2RP3004207	0.39
	NT2RP3004209	F-NT2RP3004209	0.54

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	NT2RP3004242	F-NT2RP3004242	0. 61
	NT2RP3004246	F-NT2RP3004246	0. 91
	NT2RP3004253	F-NT2RP3004253	0. 41
5	NT2RP3004258	F-NT2RP3004258	0. 41
	NT2RP3004262	F-NT2RP3004262	0. 56
	NT2RP3004282	F-NT2RP3004282	0. 90
	NT2RP3004332	F-NT2RP3004332	0. 53
10	NT2RP3004341	F-NT2RP3004341	0. 40
	NT2RP3004348	F-NT2RP3004348	0. 94
	NT2RP3004378	F-NT2RP3004378	0. 40
	NT2RP3004424	F-NT2RP3004424	0. 75
15	NT2RP3004428	F-NT2RP3004428	0. 85
	NT2RP3004451	F-NT2RP3004451	0. 85
	NT2RP3004454	F-NT2RP3004454	0. 93
	NT2RP3004466	F-NT2RP3004466	0. 80
20	NT2RP3004472	F-NT2RP3004472	0. 46
	NT2RP3004480	F-NT2RP3004480	0. 77
	NT2RP3004490	F-NT2RP3004490	0. 65
	NT2RP3004498	F-NT2RP3004498	0. 91
25	NT2RP3004504	F-NT2RP3004504	0. 88
	NT2RP3004507	F-NT2RP3004507	0. 86
	NT2RP3004534	F-NT2RP3004534	0. 32
	NT2RP3004539	F-NT2RP3004539	0. 76
30	NT2RP3004544	F-NT2RP3004544	0. 94
	NT2RP3004566	F-NT2RP3004566	0. 94
	NT2RP3004569	F-NT2RP3004569	0. 69
	NT2RP3004572	F-NT2RP3004572	0. 65
35	NT2RP3004578	F-NT2RP3004578	0. 52
	NT2RP3004594	F-NT2RP3004594	0. 39
	NT2RP3004617	F-NT2RP3004617	0. 94
	NT2RP3004618	F-NT2RP3004618	0. 41
40	NT2RP3004669	F-NT2RP3004669	0. 82
	NT2RP3004670	F-NT2RP3004670	0. 32
	NT2RP4000008	F-NT2RP4000008	0. 94
	NT2RP4000051	F-NT2RP4000051	0. 94
45	NT2RP4000109	F-NT2RP4000109	0. 84
	NT2RP4000111	F-NT2RP4000111	0. 49
	NT2RP4000129	F-NT2RP4000129	0. 94
	NT2RP4000147	F-NT2RP4000147	0. 92
50	NT2RP4000150	F-NT2RP4000150	0. 41
	NT2RP4000151	F-NT2RP4000151	0. 33
	NT2RP4000159	F-NT2RP4000159	0. 75
	NT2RP4000185	F-NT2RP4000185	0. 94
	NT2RP4000210	F-NT2RP4000210	0. 83
55	NT2RP4000212	F-NT2RP4000212	0. 94
	NT2RP4000243	F-NT2RP4000243	0. 94

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	NT2RP4000246	F-NT2RP4000246	0.59
	NT2RP4000259	F-NT2RP4000259	0.94
	NT2RP4000263	F-NT2RP4000263	0.62
5	NT2RP4000290	F-NT2RP4000290	0.92
	NT2RP4000312	F-NT2RP4000312	0.39
	NT2RP4000323	F-NT2RP4000323	0.73
	NT2RP4000355	F-NT2RP4000355	0.94
10	NT2RP4000360	F-NT2RP4000360	0.55
	NT2RP4000367	F-NT2RP4000367	0.60
	NT2RP4000370	F-NT2RP4000370	0.93
	NT2RP4000376	F-NT2RP4000376	0.88
15	NT2RP4000381	F-NT2RP4000381	0.39
	NT2RP4000398	F-NT2RP4000398	0.64
	NT2RP4000415	F-NT2RP4000415	0.94
	NT2RP4000417	F-NT2RP4000417	0.33
20	NT2RP4000448	F-NT2RP4000448	0.33
	NT2RP4000449	F-NT2RP4000449	0.33
	NT2RP4000455	F-NT2RP4000455	0.37
	NT2RP4000457	F-NT2RP4000457	0.36
25	NT2RP4000480	F-NT2RP4000480	0.88
	NT2RP4000481	F-NT2RP4000481	0.51
	NT2RP4000498	F-NT2RP4000498	0.64
	NT2RP4000500	F-NT2RP4000500	0.67
30	NT2RP4000518	F-NT2RP4000518	0.34
	NT2RP4000524	F-NT2RP4000524	0.94
	NT2RP4000528	F-NT2RP4000528	0.65
	NT2RP4000541	F-NT2RP4000541	0.44
35	NT2RP4000556	F-NT2RP4000556	0.69
	NT2RP4000560	F-NT2RP4000560	0.67
	NT2RP4000588	F-NT2RP4000588	0.94
	NT2RP4000614	F-NT2RP4000614	0.94
40	NT2RP4000638	F-NT2RP4000638	0.74
	NT2RP4000648	F-NT2RP4000648	0.40
	NT2RP4000657	F-NT2RP4000657	0.94
	NT2RP4000704	F-NT2RP4000704	0.69
45	NT2RP4000713	F-NT2RP4000713	0.93
	NT2RP4000724	F-NT2RP4000724	0.32
	NT2RP4000728	F-NT2RP4000728	0.34
	NT2RP4000737	F-NT2RP4000737	0.48
50	NT2RP4000739	F-NT2RP4000739	0.40
	NT2RP4000781	F-NT2RP4000781	0.94
	NT2RP4000787	F-NT2RP4000787	0.94
	NT2RP4000817	F-NT2RP4000817	0.60
55	NT2RP4000833	F-NT2RP4000833	0.35
	NT2RP4000837	F-NT2RP4000837	0.80
	NT2RP4000839	F-NT2RP4000839	0.33

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	NT2RP4000855	F-NT2RP4000855	0.74
	NT2RP4000865	F-NT2RP4000865	0.77
	NT2RP4000878	F-NT2RP4000878	0.79
5	NT2RP4000879	F-NT2RP4000879	0.41
	NT2RP4000907	F-NT2RP4000907	0.44
	NT2RP4000918	F-NT2RP4000918	0.88
	NT2RP4000925	F-NT2RP4000925	0.89
10	NT2RP4000927	F-NT2RP4000927	0.81
	NT2RP4000928	F-NT2RP4000928	0.39
	NT2RP4000929	F-NT2RP4000929	0.34
	NT2RP4000955	F-NT2RP4000955	0.77
15	NT2RP4000973	F-NT2RP4000973	0.36
	NT2RP4000975	F-NT2RP4000975	0.87
	NT2RP4000979	F-NT2RP4000979	0.50
	NT2RP4000984	F-NT2RP4000984	0.66
20	NT2RP4000989	F-NT2RP4000989	0.94
	NT2RP4000997	F-NT2RP4000997	0.68
	NT2RP4001004	F-NT2RP4001004	0.40
	NT2RP4001006	F-NT2RP4001006	0.91
25	NT2RP4001010	F-NT2RP4001010	0.64
	NT2RP4001029	F-NT2RP4001029	0.77
	NT2RP4001041	F-NT2RP4001041	0.79
	NT2RP4001057	F-NT2RP4001057	0.65
30	NT2RP4001064	F-NT2RP4001064	0.94
	NT2RP4001078	F-NT2RP4001078	0.39
	NT2RP4001079	F-NT2RP4001079	0.94
	NT2RP4001080	F-NT2RP4001080	0.58
35	NT2RP4001086	F-NT2RP4001086	0.78
	NT2RP4001095	F-NT2RP4001095	0.80
	NT2RP4001100	F-NT2RP4001100	0.79
	NT2RP4001117	F-NT2RP4001117	0.60
40	NT2RP4001122	F-NT2RP4001122	0.82
	NT2RP4001126	F-NT2RP4001126	0.55
	NT2RP4001138	F-NT2RP4001138	0.94
	NT2RP4001143	F-NT2RP4001143	0.41
45	NT2RP4001148	F-NT2RP4001148	0.37
	NT2RP4001149	F-NT2RP4001149	0.50
	NT2RP4001150	F-NT2RP4001150	0.94
	NT2RP4001159	F-NT2RP4001159	0.78
50	NT2RP4001174	F-NT2RP4001174	0.94
	NT2RP4001206	F-NT2RP4001206	0.80
	NT2RP4001207	F-NT2RP4001207	0.38
	NT2RP4001210	F-NT2RP4001210	0.94
55	NT2RP4001213	F-NT2RP4001213	0.46
	NT2RP4001219	F-NT2RP4001219	0.38
	NT2RP4001228	F-NT2RP4001228	0.61

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	NT2RP4001235	F-NT2RP4001235	0.88
	NT2RP4001256	F-NT2RP4001256	0.60
	NT2RP4001260	F-NT2RP4001260	0.94
5	NT2RP4001274	F-NT2RP4001274	0.82
	NT2RP4001276	F-NT2RP4001276	0.68
	NT2RP4001313	F-NT2RP4001313	0.77
	NT2RP4001315	F-NT2RP4001315	0.87
10	NT2RP4001336	F-NT2RP4001336	0.48
	NT2RP4001339	F-NT2RP4001339	0.41
	NT2RP4001343	F-NT2RP4001343	0.63
	NT2RP4001345	F-NT2RP4001345	0.89
15	NT2RP4001351	F-NT2RP4001351	0.87
	NT2RP4001353	F-NT2RP4001353	0.72
	NT2RP4001372	F-NT2RP4001372	0.78
	NT2RP4001373	F-NT2RP4001373	0.60
20	NT2RP4001375	F-NT2RP4001375	0.43
	NT2RP4001379	F-NT2RP4001379	0.77
	NT2RP4001389	F-NT2RP4001389	0.41
	NT2RP4001414	F-NT2RP4001414	0.90
25	NT2RP4001433	F-NT2RP4001433	0.39
	NT2RP4001442	F-NT2RP4001442	0.59
	NT2RP4001447	F-NT2RP4001447	0.33
	NT2RP4001474	F-NT2RP4001474	0.89
30	NT2RP4001483	F-NT2RP4001483	0.94
	NT2RP4001498	F-NT2RP4001498	0.59
	NT2RP4001502	F-NT2RP4001502	0.61
	NT2RP4001507	F-NT2RP4001507	0.91
35	NT2RP4001524	F-NT2RP4001524	0.61
	NT2RP4001529	F-NT2RP4001529	0.75
	NT2RP4001547	F-NT2RP4001547	0.77
	NT2RP4001551	F-NT2RP4001551	0.79
40	NT2RP4001555	F-NT2RP4001555	0.79
	NT2RP4001567	F-NT2RP4001567	0.39
	NT2RP4001568	F-NT2RP4001568	0.45
	NT2RP4001571	F-NT2RP4001571	0.76
45	NT2RP4001574	F-NT2RP4001574	0.91
	NT2RP4001575	F-NT2RP4001575	0.57
	NT2RP4001592	F-NT2RP4001592	0.71
	NT2RP4001610	F-NT2RP4001610	0.94
50	NT2RP4001614	F-NT2RP4001614	0.73
	NT2RP4001634	F-NT2RP4001634	0.40
	NT2RP4001638	F-NT2RP4001638	0.37
	NT2RP4001644	F-NT2RP4001644	0.94
55	NT2RP4001656	F-NT2RP4001656	0.92
	NT2RP4001677	F-NT2RP4001677	0.47
	NT2RP4001679	F-NT2RP4001679	0.54

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	NT2RP4001696	F-NT2RP4001696	0. 62
	NT2RP4001725	F-NT2RP4001725	0. 94
	NT2RP4001730	F-NT2RP4001730	0. 94
5	NT2RP4001739	F-NT2RP4001739	0. 82
	NT2RP4001753	F-NT2RP4001753	0. 66
	NT2RP4001760	F-NT2RP4001760	0. 39
	NT2RP4001790	F-NT2RP4001790	0. 64
10	NT2RP4001803	F-NT2RP4001803	0. 87
	NT2RP4001822	F-NT2RP4001822	0. 84
	NT2RP4001823	F-NT2RP4001823	0. 56
	NT2RP4001828	F-NT2RP4001828	0. 45
15	NT2RP4001838	F-NT2RP4001838	0. 87
	NT2RP4001841	F-NT2RP4001841	0. 58
	NT2RP4001849	F-NT2RP4001849	0. 88
	NT2RP4001861	F-NT2RP4001861	0. 80
20	NT2RP4001893	F-NT2RP4001893	0. 94
	NT2RP4001896	F-NT2RP4001896	0. 93
	NT2RP4001901	F-NT2RP4001901	0. 89
	NT2RP4001927	F-NT2RP4001927	0. 77
25	NT2RP4001938	F-NT2RP4001938	0. 94
	NT2RP4001946	F-NT2RP4001946	0. 74
	NT2RP4001950	F-NT2RP4001950	0. 45
	NT2RP4001953	F-NT2RP4001953	0. 49
30	NT2RP4001966	F-NT2RP4001966	0. 86
	NT2RP4001975	F-NT2RP4001975	0. 94
	NT2RP4002018	F-NT2RP4002018	0. 67
	NT2RP4002047	F-NT2RP4002047	0. 67
35	NT2RP4002052	F-NT2RP4002052	0. 42
	NT2RP4002058	F-NT2RP4002058	0. 78
	NT2RP4002071	F-NT2RP4002071	0. 94
	NT2RP4002078	F-NT2RP4002078	0. 38
40	NT2RP4002081	F-NT2RP4002081	0. 55
	NT2RP4002083	F-NT2RP4002083	0. 86
	NT2RP4002408	F-NT2RP4002408	0. 64
	NT2RP4002791	F-NT2RP4002791	0. 84
45	NT2RP4002888	F-NT2RP4002888	0. 31
	NT2RP5003459	F-NT2RP5003459	0. 94
	NT2RP5003461	F-NT2RP5003461	0. 94
	NT2RP5003477	F-NT2RP5003477	0. 44
50	NT2RP5003492	F-NT2RP5003492	0. 57
	NT2RP5003500	F-NT2RP5003500	0. 94
	NT2RP5003506	F-NT2RP5003506	0. 94
	NT2RP5003512	F-NT2RP5003512	0. 42
55	NT2RP5003522	F-NT2RP5003522	0. 94
	NT2RP5003524	F-NT2RP5003524	0. 58
	NT2RP5003534	F-NT2RP5003534	0. 32

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	OVARC1000001	F-OVARC1000001	0. 74
	OVARC1000004	F-OVARC1000004	0. 90
	OVARC1000006	F-OVARC1000006	0. 94
5	OVARC1000013	F-OVARC1000013	0. 48
	OVARC1000014	F-OVARC1000014	0. 69
	OVARC1000035	F-OVARC1000035	0. 59
	OVARC1000060	F-OVARC1000060	0. 76
10	OVARC1000087	F-OVARC1000087	0. 31
	OVARC1000091	F-OVARC1000091	0. 88
	OVARC1000106	F-OVARC1000106	0. 88
	OVARC1000109	F-OVARC1000109	0. 94
15	OVARC1000113	F-OVARC1000113	0. 40
	OVARC1000114	F-OVARC1000114	0. 53
	OVARC1000139	F-OVARC1000139	0. 88
	OVARC1000148	F-OVARC1000148	0. 94
20	OVARC1000151	F-OVARC1000151	0. 34
	OVARC1000168	F-OVARC1000168	0. 56
	OVARC1000209	F-OVARC1000209	0. 94
	OVARC1000212	F-OVARC1000212	0. 87
25	OVARC1000241	F-OVARC1000241	0. 59
	OVARC1000288	F-OVARC1000288	0. 87
	OVARC1000304	F-OVARC1000304	0. 94
	OVARC1000309	F-OVARC1000309	0. 76
30	OVARC1000321	F-OVARC1000321	0. 90
	OVARC1000326	F-OVARC1000326	0. 46
	OVARC1000335	F-OVARC1000335	0. 55
	OVARC1000347	F-OVARC1000347	0. 43
35	OVARC1000384	F-OVARC1000384	0. 90
	OVARC1000408	F-OVARC1000408	0. 42
	OVARC1000411	F-OVARC1000411	0. 65
	OVARC1000420	F-OVARC1000420	0. 84
40	OVARC1000437	F-OVARC1000437	0. 94
	OVARC1000440	F-OVARC1000440	0. 94
	OVARC1000442	F-OVARC1000442	0. 94
	OVARC1000443	F-OVARC1000443	0. 74
45	OVARC1000461	F-OVARC1000461	0. 89
	OVARC1000465	F-OVARC1000465	0. 75
	OVARC1000466	F-OVARC1000466	0. 94
	OVARC1000473	F-OVARC1000473	0. 31
50	OVARC1000479	F-OVARC1000479	0. 42
	OVARC1000520	F-OVARC1000520	0. 94
	OVARC1000556	F-OVARC1000556	0. 94
	OVARC1000557	F-OVARC1000557	0. 72
55	OVARC1000564	F-OVARC1000564	0. 94
	OVARC1000576	F-OVARC1000576	0. 40
	OVARC1000588	F-OVARC1000588	0. 45

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	OVARC1000605	F-OVARC1000605	0.58
	OVARC1000622	F-OVARC1000622	0.80
	OVARC1000640	F-OVARC1000640	0.35
5	OVARC1000649	F-OVARC1000649	0.94
	OVARC1000661	F-OVARC1000661	0.87
	OVARC1000681	F-OVARC1000681	0.84
	OVARC1000682	F-OVARC1000682	0.38
10	OVARC1000689	F-OVARC1000689	0.36
	OVARC1000703	F-OVARC1000703	0.92
	OVARC1000722	F-OVARC1000722	0.94
	OVARC1000730	F-OVARC1000730	0.90
15	OVARC1000746	F-OVARC1000746	0.42
	OVARC1000771	F-OVARC1000771	0.94
	OVARC1000781	F-OVARC1000781	0.80
	OVARC1000787	F-OVARC1000787	0.41
20	OVARC1000800	F-OVARC1000800	0.85
	OVARC1000834	F-OVARC1000834	0.62
	OVARC1000846	F-OVARC1000846	0.49
	OVARC1000850	F-OVARC1000850	0.94
25	OVARC1000862	F-OVARC1000862	0.54
	OVARC1000876	F-OVARC1000876	0.74
	OVARC1000883	F-OVARC1000883	0.55
	OVARC1000885	F-OVARC1000885	0.94
30	OVARC1000886	F-OVARC1000886	0.61
	OVARC1000890	F-OVARC1000890	0.45
	OVARC1000912	F-OVARC1000912	0.63
	OVARC1000915	F-OVARC1000915	0.31
35	OVARC1000924	F-OVARC1000924	0.82
	OVARC1000945	F-OVARC1000945	0.74
	OVARC1000959	F-OVARC1000959	0.33
	OVARC1000964	F-OVARC1000964	0.60
40	OVARC1000984	F-OVARC1000984	0.59
	OVARC1000996	F-OVARC1000996	0.83
	OVARC1000999	F-OVARC1000999	0.94
	OVARC1001004	F-OVARC1001004	0.69
45	OVARC1001010	F-OVARC1001010	0.51
	OVARC1001032	F-OVARC1001032	0.32
	OVARC1001034	F-OVARC1001034	0.78
	OVARC1001038	F-OVARC1001038	0.93
50	OVARC1001040	F-OVARC1001040	0.68
	OVARC1001044	F-OVARC1001044	0.66
	OVARC1001055	F-OVARC1001055	0.76
	OVARC1001065	F-OVARC1001065	0.31
55	OVARC1001068	F-OVARC1001068	0.63
	OVARC1001074	F-OVARC1001074	0.82
	OVARC1001092	F-OVARC1001092	0.50

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	OVARC1001107	F-OVARC1001107	0.65
	OVARC1001113	F-OVARC1001113	0.86
	OVARC1001154	F-OVARC1001154	0.43
5	OVARC1001161	F-OVARC1001161	0.75
	OVARC1001162	F-OVARC1001162	0.61
	OVARC1001167	F-OVARC1001167	0.31
	OVARC1001170	F-OVARC1001170	0.46
10	OVARC1001171	F-OVARC1001171	0.78
	OVARC1001173	F-OVARC1001173	0.71
	OVARC1001176	F-OVARC1001176	0.83
	OVARC1001180	F-OVARC1001180	0.53
15	OVARC1001188	F-OVARC1001188	0.42
	OVARC1001200	F-OVARC1001200	0.94
	OVARC1001232	F-OVARC1001232	0.90
	OVARC1001243	F-OVARC1001243	0.59
20	OVARC1001244	F-OVARC1001244	0.79
	OVARC1001270	F-OVARC1001270	0.48
	OVARC1001271	F-OVARC1001271	0.67
	OVARC1001296	F-OVARC1001296	0.60
25	OVARC1001306	F-OVARC1001306	0.44
	OVARC1001329	F-OVARC1001329	0.91
	OVARC1001341	F-OVARC1001341	0.82
	OVARC1001344	F-OVARC1001344	0.94
30	OVARC1001360	F-OVARC1001360	0.94
	OVARC1001369	F-OVARC1001369	0.36
	OVARC1001372	F-OVARC1001372	0.63
	OVARC1001376	F-OVARC1001376	0.81
35	OVARC1001381	F-OVARC1001381	0.78
	OVARC1001391	F-OVARC1001391	0.33
	OVARC1001399	F-OVARC1001399	0.67
	OVARC1001417	F-OVARC1001417	0.94
40	OVARC1001419	F-OVARC1001419	0.34
	OVARC1001425	F-OVARC1001425	0.73
	OVARC1001436	F-OVARC1001436	0.59
	OVARC1001453	F-OVARC1001453	0.45
	OVARC1001476	F-OVARC1001476	0.85
45	OVARC1001489	F-OVARC1001489	0.35
	OVARC1001496	F-OVARC1001496	0.90
	OVARC1001506	F-OVARC1001506	0.59
	OVARC1001525	F-OVARC1001525	0.87
50	OVARC1001555	F-OVARC1001555	0.67
	OVARC1001577	F-OVARC1001577	0.94
	OVARC1001610	F-OVARC1001610	0.38
	OVARC1001611	F-OVARC1001611	0.34
55	OVARC1001702	F-OVARC1001702	0.88
	OVARC1001703	F-OVARC1001703	0.76

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	OVARC1001711	F-OVARC1001711	0.82
	OVARC1001713	F-OVARC1001713	0.82
	OVARC1001731	F-OVARC1001731	0.94
5	OVARC1001762	F-OVARC1001762	0.59
	OVARC1001766	F-OVARC1001766	0.94
	OVARC1001767	F-OVARC1001767	0.70
	OVARC1001768	F-OVARC1001768	0.32
10	OVARC1001791	F-OVARC1001791	0.74
	OVARC1001802	F-OVARC1001802	0.76
	OVARC1001809	F-OVARC1001809	0.63
	OVARC1001820	F-OVARC1001820	0.94
15	OVARC1001828	F-OVARC1001828	0.78
	OVARC1001861	F-OVARC1001861	0.94
	OVARC1001873	F-OVARC1001873	0.31
	OVARC1001879	F-OVARC1001879	0.94
20	OVARC1001880	F-OVARC1001880	0.46
	OVARC1001916	F-OVARC1001916	0.82
	OVARC1001942	F-OVARC1001942	0.72
	OVARC1001943	F-OVARC1001943	0.49
25	OVARC1001949	F-OVARC1001949	0.46
	OVARC1001950	F-OVARC1001950	0.94
	OVARC1001987	F-OVARC1001987	0.91
	OVARC1002050	F-OVARC1002050	0.85
30	OVARC1002082	F-OVARC1002082	0.94
	OVARC1002107	F-OVARC1002107	0.33
	OVARC1002112	F-OVARC1002112	0.94
	OVARC1002127	F-OVARC1002127	0.80
35	OVARC1002138	F-OVARC1002138	0.46
	OVARC1002156	F-OVARC1002156	0.43
	OVARC1002158	F-OVARC1002158	0.94
	OVARC1002165	F-OVARC1002165	0.88
40	OVARC1002182	F-OVARC1002182	0.94
	PLACE1000004	F-PLACE1000004	0.43
	PLACE1000005	F-PLACE1000005	0.37
	PLACE1000007	F-PLACE1000007	0.72
45	PLACE1000014	F-PLACE1000014	0.38
	PLACE1000048	F-PLACE1000048	0.36
	PLACE1000050	F-PLACE1000050	0.94
	PLACE1000061	F-PLACE1000061	0.56
50	PLACE1000066	F-PLACE1000066	0.94
	PLACE1000081	F-PLACE1000081	0.37
	PLACE1000133	F-PLACE1000133	0.53
	PLACE1000142	F-PLACE1000142	0.94
55	PLACE1000184	F-PLACE1000184	0.73
	PLACE1000185	F-PLACE1000185	0.86
	PLACE1000213	F-PLACE1000213	0.34

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	PLACE1000236	F-PLACE1000236	0.76
	PLACE1000246	F-PLACE1000246	0.91
	PLACE1000308	F-PLACE1000308	0.40
5	PLACE1000347	F-PLACE1000347	0.48
	PLACE1000374	F-PLACE1000374	0.58
	PLACE1000380	F-PLACE1000380	0.94
	PLACE1000383	F-PLACE1000383	0.39
10	PLACE1000401	F-PLACE1000401	0.94
	PLACE1000406	F-PLACE1000406	0.94
	PLACE1000420	F-PLACE1000420	0.82
	PLACE1000435	F-PLACE1000435	0.32
15	PLACE1000444	F-PLACE1000444	0.41
	PLACE1000453	F-PLACE1000453	0.76
	PLACE1000492	F-PLACE1000492	0.65
	PLACE1000547	F-PLACE1000547	0.94
20	PLACE1000562	F-PLACE1000562	0.94
	PLACE1000564	F-PLACE1000564	0.45
	PLACE1000588	F-PLACE1000588	0.67
	PLACE1000596	F-PLACE1000596	0.60
25	PLACE1000610	F-PLACE1000610	0.94
	PLACE1000611	F-PLACE1000611	0.48
	PLACE1000636	F-PLACE1000636	0.92
	PLACE1000653	F-PLACE1000653	0.57
30	PLACE1000656	F-PLACE1000656	0.94
	PLACE1000706	F-PLACE1000706	0.94
	PLACE1000712	F-PLACE1000712	0.78
	PLACE1000716	F-PLACE1000716	0.94
35	PLACE1000748	F-PLACE1000748	0.52
	PLACE1000755	F-PLACE1000755	0.87
	PLACE1000769	F-PLACE1000769	0.94
	PLACE1000785	F-PLACE1000785	0.33
40	PLACE1000786	F-PLACE1000786	0.88
	PLACE1000793	F-PLACE1000793	0.79
	PLACE1000798	F-PLACE1000798	0.59
	PLACE1000849	F-PLACE1000849	0.64
45	PLACE1000856	F-PLACE1000856	0.40
	PLACE1000863	F-PLACE1000863	0.94
	PLACE1000909	F-PLACE1000909	0.94
	PLACE1000948	F-PLACE1000948	0.92
50	PLACE1000972	F-PLACE1000972	0.73
	PLACE1000977	F-PLACE1000977	0.72
	PLACE1000987	F-PLACE1000987	0.93
	PLACE1001000	F-PLACE1001000	0.37
	PLACE1001010	F-PLACE1001010	0.50
55	PLACE1001024	F-PLACE1001024	0.94
	PLACE1001036	F-PLACE1001036	0.51

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	PLACE1001054	F-PLACE1001054	0.88
	PLACE1001062	F-PLACE1001062	0.57
	PLACE1001092	F-PLACE1001092	0.94
5	PLACE1001104	F-PLACE1001104	0.38
	PLACE1001168	F-PLACE1001168	0.41
	PLACE1001171	F-PLACE1001171	0.36
	PLACE1001185	F-PLACE1001185	0.93
10	PLACE1001238	F-PLACE1001238	0.87
	PLACE1001241	F-PLACE1001241	0.67
	PLACE1001257	F-PLACE1001257	0.40
	PLACE1001280	F-PLACE1001280	0.70
15	PLACE1001294	F-PLACE1001294	0.49
	PLACE1001304	F-PLACE1001304	0.94
	PLACE1001311	F-PLACE1001311	0.53
	PLACE1001351	F-PLACE1001351	0.86
20	PLACE1001366	F-PLACE1001366	0.39
	PLACE1001383	F-PLACE1001383	0.94
	PLACE1001387	F-PLACE1001387	0.34
	PLACE1001399	F-PLACE1001399	0.38
25	PLACE1001412	F-PLACE1001412	0.94
	PLACE1001456	F-PLACE1001456	0.42
	PLACE1001484	F-PLACE1001484	0.88
	PLACE1001503	F-PLACE1001503	0.85
30	PLACE1001545	F-PLACE1001545	0.92
	PLACE1001551	F-PLACE1001551	0.39
	PLACE1001570	F-PLACE1001570	0.40
	PLACE1001602	F-PLACE1001602	0.60
35	PLACE1001608	F-PLACE1001608	0.40
	PLACE1001610	F-PLACE1001610	0.43
	PLACE1001632	F-PLACE1001632	0.48
	PLACE1001634	F-PLACE1001634	0.60
40	PLACE1001692	F-PLACE1001692	0.74
	PLACE1001729	F-PLACE1001729	0.69
	PLACE1001739	F-PLACE1001739	0.49
	PLACE1001740	F-PLACE1001740	0.50
45	PLACE1001761	F-PLACE1001761	0.71
	PLACE1001771	F-PLACE1001771	0.39
	PLACE1001781	F-PLACE1001781	0.57
	PLACE1001810	F-PLACE1001810	0.57
50	PLACE1001817	F-PLACE1001817	0.91
	PLACE1001844	F-PLACE1001844	0.34
	PLACE1001869	F-PLACE1001869	0.34
	PLACE1001912	F-PLACE1001912	0.82
	PLACE1001920	F-PLACE1001920	0.85
55	PLACE1001928	F-PLACE1001928	0.60
	PLACE1001983	F-PLACE1001983	0.39

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	PLACE1001989	F-PLACE1001989	0.74
	PLACE1002004	F-PLACE1002004	0.70
	PLACE1002046	F-PLACE1002046	0.81
5	PLACE1002072	F-PLACE1002072	0.94
	PLACE1002073	F-PLACE1002073	0.70
	PLACE1002090	F-PLACE1002090	0.64
	PLACE1002115	F-PLACE1002115	0.60
10	PLACE1002119	F-PLACE1002119	0.71
	PLACE1002140	F-PLACE1002140	0.94
	PLACE1002163	F-PLACE1002163	0.56
	PLACE1002170	F-PLACE1002170	0.60
15	PLACE1002171	F-PLACE1002171	0.72
	PLACE1002213	F-PLACE1002213	0.35
	PLACE1002342	F-PLACE1002342	0.40
	PLACE1002395	F-PLACE1002395	0.87
20	PLACE1002433	F-PLACE1002433	0.73
	PLACE1002437	F-PLACE1002437	0.46
	PLACE1002438	F-PLACE1002438	0.41
	PLACE1002450	F-PLACE1002450	0.48
25	PLACE1002465	F-PLACE1002465	0.34
	PLACE1002474	F-PLACE1002474	0.89
	PLACE1002499	F-PLACE1002499	0.94
	PLACE1002529	F-PLACE1002529	0.45
30	PLACE1002532	F-PLACE1002532	0.76
	PLACE1002571	F-PLACE1002571	0.40
	PLACE1002625	F-PLACE1002625	0.36
	PLACE1002655	F-PLACE1002655	0.41
35	PLACE1002665	F-PLACE1002665	0.80
	PLACE1002685	F-PLACE1002685	0.31
	PLACE1002714	F-PLACE1002714	0.90
	PLACE1002722	F-PLACE1002722	0.43
	PLACE1002775	F-PLACE1002775	0.94
40	PLACE1002794	F-PLACE1002794	0.90
	PLACE1002811	F-PLACE1002811	0.88
	PLACE1002815	F-PLACE1002815	0.40
	PLACE1002816	F-PLACE1002816	0.73
45	PLACE1002834	F-PLACE1002834	0.41
	PLACE1002839	F-PLACE1002839	0.73
	PLACE1002851	F-PLACE1002851	0.90
	PLACE1002908	F-PLACE1002908	0.94
50	PLACE1002941	F-PLACE1002941	0.33
	PLACE1002991	F-PLACE1002991	0.39
	PLACE1002993	F-PLACE1002993	0.94
	PLACE1002996	F-PLACE1002996	0.40
55	PLACE1003025	F-PLACE1003025	0.77
	PLACE1003027	F-PLACE1003027	0.54

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	PLACE1003044	F-PLACE1003044	0.71
	PLACE1003045	F-PLACE1003045	0.89
	PLACE1003092	F-PLACE1003092	0.59
5	PLACE1003100	F-PLACE1003100	0.38
	PLACE1003108	F-PLACE1003108	0.94
	PLACE1003136	F-PLACE1003136	0.87
	PLACE1003145	F-PLACE1003145	0.94
10	PLACE1003174	F-PLACE1003174	0.46
	PLACE1003176	F-PLACE1003176	0.48
	PLACE1003190	F-PLACE1003190	0.57
	PLACE1003200	F-PLACE1003200	0.47
15	PLACE1003249	F-PLACE1003249	0.33
	PLACE1003256	F-PLACE1003256	0.57
	PLACE1003296	F-PLACE1003296	0.41
	PLACE1003302	F-PLACE1003302	0.94
20	PLACE1003334	F-PLACE1003334	0.78
	PLACE1003342	F-PLACE1003342	0.34
	PLACE1003353	F-PLACE1003353	0.71
	PLACE1003366	F-PLACE1003366	0.66
25	PLACE1003369	F-PLACE1003369	0.91
	PLACE1003383	F-PLACE1003383	0.70
	PLACE1003394	F-PLACE1003394	0.94
	PLACE1003454	F-PLACE1003454	0.94
30	PLACE1003493	F-PLACE1003493	0.93
	PLACE1003537	F-PLACE1003537	0.94
	PLACE1003553	F-PLACE1003553	0.34
	PLACE1003592	F-PLACE1003592	0.33
35	PLACE1003596	F-PLACE1003596	0.89
	PLACE1003602	F-PLACE1003602	0.94
	PLACE1003605	F-PLACE1003605	0.94
	PLACE1003611	F-PLACE1003611	0.80
40	PLACE1003625	F-PLACE1003625	0.39
	PLACE1003669	F-PLACE1003669	0.79
	PLACE1003704	F-PLACE1003704	0.43
	PLACE1003709	F-PLACE1003709	0.90
	PLACE1003711	F-PLACE1003711	0.74
45	PLACE1003723	F-PLACE1003723	0.63
	PLACE1003738	F-PLACE1003738	0.91
	PLACE1003762	F-PLACE1003762	0.94
	PLACE1003771	F-PLACE1003771	0.56
50	PLACE1003783	F-PLACE1003783	0.39
	PLACE1003784	F-PLACE1003784	0.61
	PLACE1003795	F-PLACE1003795	0.32
	PLACE1003870	F-PLACE1003870	0.94
55	PLACE1003885	F-PLACE1003885	0.94
	PLACE1003886	F-PLACE1003886	0.94

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	PLACE1003888	F-PLACE1003888	0.36
	PLACE1003892	F-PLACE1003892	0.92
	PLACE1003903	F-PLACE1003903	0.68
5	PLACE1003915	F-PLACE1003915	0.54
	PLACE1003923	F-PLACE1003923	0.52
	PLACE1003936	F-PLACE1003936	0.67
	PLACE1003968	F-PLACE1003968	0.59
10	PLACE1004103	F-PLACE1004103	0.94
	PLACE1004104	F-PLACE1004104	0.44
	PLACE1004114	F-PLACE1004114	0.91
	PLACE1004128	F-PLACE1004128	0.72
15	PLACE1004149	F-PLACE1004149	0.41
	PLACE1004156	F-PLACE1004156	0.50
	PLACE1004161	F-PLACE1004161	0.77
	PLACE1004183	F-PLACE1004183	0.62
20	PLACE1004197	F-PLACE1004197	0.39
	PLACE1004203	F-PLACE1004203	0.94
	PLACE1004258	F-PLACE1004258	0.46
	PLACE1004270	F-PLACE1004270	0.65
25	PLACE1004277	F-PLACE1004277	0.86
	PLACE1004289	F-PLACE1004289	0.79
	PLACE1004302	F-PLACE1004302	0.57
	PLACE1004316	F-PLACE1004316	0.64
30	PLACE1004358	F-PLACE1004358	0.85
	PLACE1004376	F-PLACE1004376	0.64
	PLACE1004388	F-PLACE1004388	0.94
	PLACE1004405	F-PLACE1004405	0.82
35	PLACE1004428	F-PLACE1004428	0.68
	PLACE1004437	F-PLACE1004437	0.94
	PLACE1004451	F-PLACE1004451	0.39
	PLACE1004460	F-PLACE1004460	0.92
40	PLACE1004473	F-PLACE1004473	0.94
	PLACE1004510	F-PLACE1004510	0.94
	PLACE1004516	F-PLACE1004516	0.58
	PLACE1004548	F-PLACE1004548	0.59
45	PLACE1004550	F-PLACE1004550	0.94
	PLACE1004564	F-PLACE1004564	0.53
	PLACE1004629	F-PLACE1004629	0.34
	PLACE1004645	F-PLACE1004645	0.59
	PLACE1004646	F-PLACE1004646	0.35
50	PLACE1004664	F-PLACE1004664	0.31
	PLACE1004672	F-PLACE1004672	0.83
	PLACE1004674	F-PLACE1004674	0.90
	PLACE1004686	F-PLACE1004686	0.31
55	PLACE1004691	F-PLACE1004691	0.89
	PLACE1004722	F-PLACE1004722	0.48

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	PLACE1004736	F-PLACE1004736	0. 80
	PLACE1004740	F-PLACE1004740	0. 34
	PLACE1004743	F-PLACE1004743	0. 70
5	PLACE1004751	F-PLACE1004751	0. 49
	PLACE1004777	F-PLACE1004777	0. 72
	PLACE1004804	F-PLACE1004804	0. 46
	PLACE1004814	F-PLACE1004814	0. 70
10	PLACE1004824	F-PLACE1004824	0. 63
	PLACE1004868	F-PLACE1004868	0. 94
	PLACE1004885	F-PLACE1004885	0. 63
	PLACE1004902	F-PLACE1004902	0. 56
15	PLACE1004918	F-PLACE1004918	0. 85
	PLACE1004930	F-PLACE1004930	0. 83
	PLACE1004937	F-PLACE1004937	0. 46
	PLACE1004969	F-PLACE1004969	0. 62
20	PLACE1004982	F-PLACE1004982	0. 61
	PLACE1005026	F-PLACE1005026	0. 81
	PLACE1005027	F-PLACE1005027	0. 91
	PLACE1005046	F-PLACE1005046	0. 31
25	PLACE1005055	F-PLACE1005055	0. 57
	PLACE1005066	F-PLACE1005066	0. 68
	PLACE1005101	F-PLACE1005101	0. 94
	PLACE1005102	F-PLACE1005102	0. 94
30	PLACE1005181	F-PLACE1005181	0. 94
	PLACE1005187	F-PLACE1005187	0. 94
	PLACE1005206	F-PLACE1005206	0. 67
	PLACE1005232	F-PLACE1005232	0. 72
35	PLACE1005243	F-PLACE1005243	0. 81
	PLACE1005261	F-PLACE1005261	0. 75
	PLACE1005266	F-PLACE1005266	0. 55
	PLACE1005277	F-PLACE1005277	0. 43
40	PLACE1005287	F-PLACE1005287	0. 77
	PLACE1005305	F-PLACE1005305	0. 94
	PLACE1005308	F-PLACE1005308	0. 46
	PLACE1005313	F-PLACE1005313	0. 94
45	PLACE1005327	F-PLACE1005327	0. 82
	PLACE1005331	F-PLACE1005331	0. 94
	PLACE1005335	F-PLACE1005335	0. 94
	PLACE1005373	F-PLACE1005373	0. 71
	PLACE1005374	F-PLACE1005374	0. 82
50	PLACE1005480	F-PLACE1005480	0. 43
	PLACE1005481	F-PLACE1005481	0. 42
	PLACE1005494	F-PLACE1005494	0. 34
	PLACE1005530	F-PLACE1005530	0. 94
55	PLACE1005550	F-PLACE1005550	0. 86
	PLACE1005554	F-PLACE1005554	0. 34

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	PLACE1005557	F-PLACE1005557	0.80
	PLACE1005595	F-PLACE1005595	0.69
	PLACE1005603	F-PLACE1005603	0.92
5	PLACE1005623	F-PLACE1005623	0.68
	PLACE1005630	F-PLACE1005630	0.58
	PLACE1005646	F-PLACE1005646	0.31
	PLACE1005656	F-PLACE1005656	0.85
10	PLACE1005698	F-PLACE1005698	0.91
	PLACE1005727	F-PLACE1005727	0.94
	PLACE1005739	F-PLACE1005739	0.87
	PLACE1005755	F-PLACE1005755	0.32
15	PLACE1005763	F-PLACE1005763	0.74
	PLACE1005799	F-PLACE1005799	0.47
	PLACE1005803	F-PLACE1005803	0.88
	PLACE1005804	F-PLACE1005804	0.36
20	PLACE1005813	F-PLACE1005813	0.76
	PLACE1005828	F-PLACE1005828	0.43
	PLACE1005834	F-PLACE1005834	0.89
	PLACE1005851	F-PLACE1005851	0.39
25	PLACE1005876	F-PLACE1005876	0.51
	PLACE1005890	F-PLACE1005890	0.81
	PLACE1005921	F-PLACE1005921	0.90
	PLACE1005923	F-PLACE1005923	0.70
30	PLACE1005925	F-PLACE1005925	0.55
	PLACE1005934	F-PLACE1005934	0.94
	PLACE1005936	F-PLACE1005936	0.41
	PLACE1005951	F-PLACE1005951	0.34
35	PLACE1005953	F-PLACE1005953	0.31
	PLACE1005955	F-PLACE1005955	0.89
	PLACE1005966	F-PLACE1005966	0.73
	PLACE1005990	F-PLACE1005990	0.37
40	PLACE1006011	F-PLACE1006011	0.94
	PLACE1006037	F-PLACE1006037	0.65
	PLACE1006040	F-PLACE1006040	0.94
	PLACE1006119	F-PLACE1006119	0.52
45	PLACE1006139	F-PLACE1006139	0.94
	PLACE1006157	F-PLACE1006157	0.34
	PLACE1006159	F-PLACE1006159	0.50
	PLACE1006167	F-PLACE1006167	0.94
	PLACE1006170	F-PLACE1006170	0.94
50	PLACE1006195	F-PLACE1006195	0.31
	PLACE1006196	F-PLACE1006196	0.84
	PLACE1006225	F-PLACE1006225	0.87
	PLACE1006236	F-PLACE1006236	0.92
55	PLACE1006239	F-PLACE1006239	0.53
	PLACE1006246	F-PLACE1006246	0.44

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	PLACE1006248	F-PLACE1006248	0. 49
	PLACE1006325	F-PLACE1006325	0. 74
	PLACE1006335	F-PLACE1006335	0. 82
5	PLACE1006357	F-PLACE1006357	0. 33
	PLACE1006385	F-PLACE1006385	0. 54
	PLACE1006412	F-PLACE1006412	0. 79
	PLACE1006414	F-PLACE1006414	0. 52
10	PLACE1006438	F-PLACE1006438	0. 94
	PLACE1006445	F-PLACE1006445	0. 37
	PLACE1006469	F-PLACE1006469	0. 85
	PLACE1006482	F-PLACE1006482	0. 94
15	PLACE1006488	F-PLACE1006488	0. 94
	PLACE1006492	F-PLACE1006492	0. 32
	PLACE1006531	F-PLACE1006531	0. 45
	PLACE1006552	F-PLACE1006552	0. 42
20	PLACE1006598	F-PLACE1006598	0. 33
	PLACE1006615	F-PLACE1006615	0. 89
	PLACE1006626	F-PLACE1006626	0. 69
	PLACE1006673	F-PLACE1006673	0. 61
25	PLACE1006678	F-PLACE1006678	0. 53
	PLACE1006704	F-PLACE1006704	0. 47
	PLACE1006731	F-PLACE1006731	0. 72
	PLACE1006782	F-PLACE1006782	0. 68
30	PLACE1006819	F-PLACE1006819	0. 57
	PLACE1006829	F-PLACE1006829	0. 47
	PLACE1006883	F-PLACE1006883	0. 88
	PLACE1006901	F-PLACE1006901	0. 43
35	PLACE1006917	F-PLACE1006917	0. 56
	PLACE1006932	F-PLACE1006932	0. 45
	PLACE1006935	F-PLACE1006935	0. 58
	PLACE1006956	F-PLACE1006956	0. 77
	PLACE1006958	F-PLACE1006958	0. 75
40	PLACE1006961	F-PLACE1006961	0. 34
	PLACE1006962	F-PLACE1006962	0. 94
	PLACE1006966	F-PLACE1006966	0. 56
	PLACE1006989	F-PLACE1006989	0. 47
45	PLACE1007014	F-PLACE1007014	0. 94
	PLACE1007021	F-PLACE1007021	0. 74
	PLACE1007053	F-PLACE1007053	0. 73
	PLACE1007068	F-PLACE1007068	0. 43
50	PLACE1007105	F-PLACE1007105	0. 88
	PLACE1007112	F-PLACE1007112	0. 82
	PLACE1007178	F-PLACE1007178	0. 91
	PLACE1007226	F-PLACE1007226	0. 79
55	PLACE1007238	F-PLACE1007238	0. 94
	PLACE1007239	F-PLACE1007239	0. 94

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	PLACE1007242	F-PLACE1007242	0.48
	PLACE1007243	F-PLACE1007243	0.77
	PLACE1007257	F-PLACE1007257	0.54
5	PLACE1007274	F-PLACE1007274	0.94
	PLACE1007282	F-PLACE1007282	0.94
	PLACE1007301	F-PLACE1007301	0.34
	PLACE1007317	F-PLACE1007317	0.43
10	PLACE1007342	F-PLACE1007342	0.72
	PLACE1007346	F-PLACE1007346	0.92
	PLACE1007367	F-PLACE1007367	0.43
	PLACE1007375	F-PLACE1007375	0.85
15	PLACE1007386	F-PLACE1007386	0.58
	PLACE1007402	F-PLACE1007402	0.74
	PLACE1007409	F-PLACE1007409	0.39
	PLACE1007416	F-PLACE1007416	0.80
20	PLACE1007450	F-PLACE1007450	0.41
	PLACE1007452	F-PLACE1007452	0.68
	PLACE1007454	F-PLACE1007454	0.39
	PLACE1007460	F-PLACE1007460	0.58
25	PLACE1007484	F-PLACE1007484	0.94
	PLACE1007488	F-PLACE1007488	0.50
	PLACE1007507	F-PLACE1007507	0.44
	PLACE1007511	F-PLACE1007511	0.86
30	PLACE1007524	F-PLACE1007524	0.66
	PLACE1007537	F-PLACE1007537	0.93
	PLACE1007544	F-PLACE1007544	0.94
	PLACE1007547	F-PLACE1007547	0.65
35	PLACE1007583	F-PLACE1007583	0.87
	PLACE1007598	F-PLACE1007598	0.39
	PLACE1007618	F-PLACE1007618	0.62
	PLACE1007621	F-PLACE1007621	0.63
40	PLACE1007632	F-PLACE1007632	0.75
	PLACE1007645	F-PLACE1007645	0.94
	PLACE1007649	F-PLACE1007649	0.56
	PLACE1007688	F-PLACE1007688	0.94
	PLACE1007690	F-PLACE1007690	0.44
45	PLACE1007697	F-PLACE1007697	0.93
	PLACE1007705	F-PLACE1007705	0.61
	PLACE1007706	F-PLACE1007706	0.47
	PLACE1007725	F-PLACE1007725	0.61
50	PLACE1007729	F-PLACE1007729	0.53
	PLACE1007730	F-PLACE1007730	0.31
	PLACE1007746	F-PLACE1007746	0.81
	PLACE1007791	F-PLACE1007791	0.46
55	PLACE1007810	F-PLACE1007810	0.73
	PLACE1007843	F-PLACE1007843	0.31

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	PLACE1007846	F-PLACE1007846	0.38
	PLACE1007858	F-PLACE1007858	0.79
	PLACE1007897	F-PLACE1007897	0.94
5	PLACE1007908	F-PLACE1007908	0.94
	PLACE1007946	F-PLACE1007946	0.52
	PLACE1007954	F-PLACE1007954	0.43
	PLACE1007955	F-PLACE1007955	0.41
10	PLACE1007958	F-PLACE1007958	0.37
	PLACE1007969	F-PLACE1007969	0.87
	PLACE1007990	F-PLACE1007990	0.94
	PLACE1008000	F-PLACE1008000	0.94
15	PLACE1008002	F-PLACE1008002	0.93
	PLACE1008044	F-PLACE1008044	0.72
	PLACE1008095	F-PLACE1008095	0.94
	PLACE1008122	F-PLACE1008122	0.94
20	PLACE1008129	F-PLACE1008129	0.80
	PLACE1008132	F-PLACE1008132	0.37
	PLACE1008177	F-PLACE1008177	0.74
	PLACE1008198	F-PLACE1008198	0.94
25	PLACE1008209	F-PLACE1008209	0.54
	PLACE1008273	F-PLACE1008273	0.94
	PLACE1008275	F-PLACE1008275	0.82
	PLACE1008280	F-PLACE1008280	0.34
30	PLACE1008309	F-PLACE1008309	0.90
	PLACE1008329	F-PLACE1008329	0.38
	PLACE1008356	F-PLACE1008356	0.93
	PLACE1008368	F-PLACE1008368	0.43
35	PLACE1008398	F-PLACE1008398	0.78
	PLACE1008401	F-PLACE1008401	0.81
	PLACE1008402	F-PLACE1008402	0.88
	PLACE1008429	F-PLACE1008429	0.39
40	PLACE1008457	F-PLACE1008457	0.77
	PLACE1008465	F-PLACE1008465	0.94
	PLACE1008488	F-PLACE1008488	0.42
	PLACE1008524	F-PLACE1008524	0.41
	PLACE1008531	F-PLACE1008531	0.94
45	PLACE1008532	F-PLACE1008532	0.61
	PLACE1008533	F-PLACE1008533	0.45
	PLACE1008568	F-PLACE1008568	0.65
	PLACE1008603	F-PLACE1008603	0.42
50	PLACE1008626	F-PLACE1008626	0.94
	PLACE1008627	F-PLACE1008627	0.72
	PLACE1008629	F-PLACE1008629	0.33
	PLACE1008650	F-PLACE1008650	0.79
55	PLACE1008693	F-PLACE1008693	0.32
	PLACE1008696	F-PLACE1008696	0.39

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	PLACE1008790	F-PLACE1008790	0. 81
	PLACE1008808	F-PLACE1008808	0. 51
	PLACE1008813	F-PLACE1008813	0. 36
5	PLACE1008854	F-PLACE1008854	0. 81
	PLACE1008867	F-PLACE1008867	0. 34
	PLACE1008887	F-PLACE1008887	0. 49
	PLACE1008902	F-PLACE1008902	0. 91
10	PLACE1008925	F-PLACE1008925	0. 94
	PLACE1008934	F-PLACE1008934	0. 70
	PLACE1009027	F-PLACE1009027	0. 32
	PLACE1009045	F-PLACE1009045	0. 42
15	PLACE1009060	F-PLACE1009060	0. 69
	PLACE1009090	F-PLACE1009090	0. 46
	PLACE1009091	F-PLACE1009091	0. 90
	PLACE1009094	F-PLACE1009094	0. 44
20	PLACE1009099	F-PLACE1009099	0. 56
	PLACE1009110	F-PLACE1009110	0. 84
	PLACE1009111	F-PLACE1009111	0. 80
	PLACE1009113	F-PLACE1009113	0. 88
25	PLACE1009130	F-PLACE1009130	0. 60
	PLACE1009158	F-PLACE1009158	0. 41
	PLACE1009166	F-PLACE1009166	0. 94
	PLACE1009174	F-PLACE1009174	0. 38
30	PLACE1009186	F-PLACE1009186	0. 59
	PLACE1009190	F-PLACE1009190	0. 66
	PLACE1009230	F-PLACE1009230	0. 87
	PLACE1009298	F-PLACE1009298	0. 41
35	PLACE1009319	F-PLACE1009319	0. 53
	PLACE1009328	F-PLACE1009328	0. 66
	PLACE1009335	F-PLACE1009335	0. 47
	PLACE1009338	F-PLACE1009338	0. 70
	PLACE1009368	F-PLACE1009368	0. 94
40	PLACE1009375	F-PLACE1009375	0. 76
	PLACE1009388	F-PLACE1009388	0. 46
	PLACE1009404	F-PLACE1009404	0. 72
	PLACE1009434	F-PLACE1009434	0. 50
45	PLACE1009443	F-PLACE1009443	0. 90
	PLACE1009444	F-PLACE1009444	0. 33
	PLACE1009459	F-PLACE1009459	0. 94
	PLACE1009468	F-PLACE1009468	0. 88
50	PLACE1009476	F-PLACE1009476	0. 84
	PLACE1009524	F-PLACE1009524	0. 88
	PLACE1009542	F-PLACE1009542	0. 55
	PLACE1009571	F-PLACE1009571	0. 61
55	PLACE1009581	F-PLACE1009581	0. 94
	PLACE1009596	F-PLACE1009596	0. 44

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	PLACE1009607	F-PLACE1009607	0.47
	PLACE1009622	F-PLACE1009622	0.65
	PLACE1009659	F-PLACE1009659	0.36
5	PLACE1009665	F-PLACE1009665	0.43
	PLACE1009670	F-PLACE1009670	0.33
	PLACE1009708	F-PLACE1009708	0.80
	PLACE1009721	F-PLACE1009721	0.81
10	PLACE1009731	F-PLACE1009731	0.47
	PLACE1009763	F-PLACE1009763	0.94
	PLACE1009794	F-PLACE1009794	0.33
	PLACE1009798	F-PLACE1009798	0.34
15	PLACE1009845	F-PLACE1009845	0.66
	PLACE1009861	F-PLACE1009861	0.72
	PLACE1009886	F-PLACE1009886	0.63
	PLACE1009908	F-PLACE1009908	0.92
20	PLACE1009921	F-PLACE1009921	0.70
	PLACE1009971	F-PLACE1009971	0.40
	PLACE1009992	F-PLACE1009992	0.89
	PLACE1009995	F-PLACE1009995	0.88
25	PLACE1009997	F-PLACE1009997	0.41
	PLACE1010023	F-PLACE1010023	0.90
	PLACE1010031	F-PLACE1010031	0.71
	PLACE1010053	F-PLACE1010053	0.51
30	PLACE1010074	F-PLACE1010074	0.75
	PLACE1010076	F-PLACE1010076	0.53
	PLACE1010096	F-PLACE1010096	0.44
	PLACE1010102	F-PLACE1010102	0.77
35	PLACE1010105	F-PLACE1010105	0.58
	PLACE1010106	F-PLACE1010106	0.39
	PLACE1010134	F-PLACE1010134	0.85
	PLACE1010148	F-PLACE1010148	0.32
40	PLACE1010152	F-PLACE1010152	0.94
	PLACE1010194	F-PLACE1010194	0.94
	PLACE1010202	F-PLACE1010202	0.33
	PLACE1010261	F-PLACE1010261	0.36
	PLACE1010274	F-PLACE1010274	0.94
45	PLACE1010293	F-PLACE1010293	0.55
	PLACE1010310	F-PLACE1010310	0.41
	PLACE1010321	F-PLACE1010321	0.40
	PLACE1010324	F-PLACE1010324	0.40
50	PLACE1010329	F-PLACE1010329	0.36
	PLACE1010362	F-PLACE1010362	0.34
	PLACE1010364	F-PLACE1010364	0.37
	PLACE1010383	F-PLACE1010383	0.94
55	PLACE1010401	F-PLACE1010401	0.53
	PLACE1010481	F-PLACE1010481	0.74

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	PLACE1010492	F-PLACE1010492	0.39
	PLACE1010522	F-PLACE1010522	0.92
5	PLACE1010529	F-PLACE1010529	0.65
	PLACE1010547	F-PLACE1010547	0.82
	PLACE1010580	F-PLACE1010580	0.72
	PLACE1010599	F-PLACE1010599	0.83
10	PLACE1010616	F-PLACE1010616	0.54
	PLACE1010622	F-PLACE1010622	0.92
	PLACE1010629	F-PLACE1010629	0.94
	PLACE1010630	F-PLACE1010630	0.37
15	PLACE1010661	F-PLACE1010661	0.56
	PLACE1010714	F-PLACE1010714	0.68
	PLACE1010720	F-PLACE1010720	0.90
	PLACE1010743	F-PLACE1010743	0.75
20	PLACE1010761	F-PLACE1010761	0.69
	PLACE1010771	F-PLACE1010771	0.94
	PLACE1010786	F-PLACE1010786	0.80
	PLACE1010800	F-PLACE1010800	0.41
25	PLACE1010811	F-PLACE1010811	0.94
	PLACE1010833	F-PLACE1010833	0.94
	PLACE1010856	F-PLACE1010856	0.37
	PLACE1010857	F-PLACE1010857	0.54
30	PLACE1010870	F-PLACE1010870	0.50
	PLACE1010877	F-PLACE1010877	0.77
	PLACE1010900	F-PLACE1010900	0.70
	PLACE1010917	F-PLACE1010917	0.94
35	PLACE1010925	F-PLACE1010925	0.79
	PLACE1010926	F-PLACE1010926	0.94
	PLACE1010942	F-PLACE1010942	0.36
	PLACE1010944	F-PLACE1010944	0.61
40	PLACE1010954	F-PLACE1010954	0.83
	PLACE1010960	F-PLACE1010960	0.38
	PLACE1010965	F-PLACE1010965	0.68
	PLACE1011026	F-PLACE1011026	0.38
45	PLACE1011041	F-PLACE1011041	0.94
	PLACE1011046	F-PLACE1011046	0.85
	PLACE1011054	F-PLACE1011054	0.65
	PLACE1011056	F-PLACE1011056	0.82
	PLACE1011090	F-PLACE1011090	0.94
50	PLACE1011114	F-PLACE1011114	0.94
	PLACE1011160	F-PLACE1011160	0.62
	PLACE1011214	F-PLACE1011214	0.40
	PLACE1011219	F-PLACE1011219	0.48
55	PLACE1011221	F-PLACE1011221	0.94
	PLACE1011229	F-PLACE1011229	0.46

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	PLACE1011273	F-PLACE1011273	0.32
	PLACE1011291	F-PLACE1011291	0.55
5	PLACE1011310	F-PLACE1011310	0.74
	PLACE1011325	F-PLACE1011325	0.39
	PLACE1011332	F-PLACE1011332	0.74
	PLACE1011371	F-PLACE1011371	0.32
10	PLACE1011399	F-PLACE1011399	0.89
	PLACE1011433	F-PLACE1011433	0.33
	PLACE1011472	F-PLACE1011472	0.59
	PLACE1011477	F-PLACE1011477	0.80
15	PLACE1011563	F-PLACE1011563	0.83
	PLACE1011586	F-PLACE1011586	0.82
	PLACE1011635	F-PLACE1011635	0.62
	PLACE1011646	F-PLACE1011646	0.37
20	PLACE1011664	F-PLACE1011664	0.65
	PLACE1011675	F-PLACE1011675	0.89
	PLACE1011682	F-PLACE1011682	0.81
	PLACE1011725	F-PLACE1011725	0.86
25	PLACE1011783	F-PLACE1011783	0.78
	PLACE1011858	F-PLACE1011858	0.76
	PLACE1011875	F-PLACE1011875	0.49
	PLACE1011891	F-PLACE1011891	0.34
30	PLACE1011896	F-PLACE1011896	0.34
	PLACE1011922	F-PLACE1011922	0.46
	PLACE1011923	F-PLACE1011923	0.74
	PLACE1011982	F-PLACE1011982	0.71
35	PLACE1012031	F-PLACE1012031	0.80
	PLACE2000006	F-PLACE2000006	0.61
	PLACE2000007	F-PLACE2000007	0.37
	PLACE2000014	F-PLACE2000014	0.67
40	PLACE2000015	F-PLACE2000015	0.53
	PLACE2000021	F-PLACE2000021	0.36
	PLACE2000030	F-PLACE2000030	0.83
	PLACE2000033	F-PLACE2000033	0.44
45	PLACE2000034	F-PLACE2000034	0.88
	PLACE2000039	F-PLACE2000039	0.67
	PLACE2000047	F-PLACE2000047	0.84
	PLACE2000050	F-PLACE2000050	0.41
	PLACE2000062	F-PLACE2000062	0.94
50	PLACE2000072	F-PLACE2000072	0.86
	PLACE2000097	F-PLACE2000097	0.94
	PLACE2000100	F-PLACE2000100	0.75
	PLACE2000111	F-PLACE2000111	0.62
55	PLACE2000124	F-PLACE2000124	0.77
	PLACE2000164	F-PLACE2000164	0.57

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	PLACE2000172	F-PLACE2000172	0.55
	PLACE2000223	F-PLACE2000223	0.54
5	PLACE2000235	F-PLACE2000235	0.94
	PLACE2000246	F-PLACE2000246	0.94
	PLACE2000274	F-PLACE2000274	0.82
	PLACE2000302	F-PLACE2000302	0.92
10	PLACE2000341	F-PLACE2000341	0.58
	PLACE2000359	F-PLACE2000359	0.33
	PLACE2000371	F-PLACE2000371	0.71
	PLACE2000373	F-PLACE2000373	0.65
15	PLACE2000399	F-PLACE2000399	0.41
	PLACE2000404	F-PLACE2000404	0.94
	PLACE2000411	F-PLACE2000411	0.90
	PLACE2000427	F-PLACE2000427	0.60
20	PLACE2000433	F-PLACE2000433	0.61
	PLACE2000438	F-PLACE2000438	0.56
	PLACE2000458	F-PLACE2000458	0.82
	PLACE3000009	F-PLACE3000009	0.56
25	PLACE3000020	F-PLACE3000020	0.94
	PLACE3000029	F-PLACE3000029	0.94
	PLACE3000059	F-PLACE3000059	0.51
	PLACE3000070	F-PLACE3000070	0.67
30	PLACE3000103	F-PLACE3000103	0.34
	PLACE3000121	F-PLACE3000121	0.32
	PLACE3000142	F-PLACE3000142	0.67
	PLACE3000145	F-PLACE3000145	0.84
35	PLACE3000147	F-PLACE3000147	0.57
	PLACE3000148	F-PLACE3000148	0.94
	PLACE3000155	F-PLACE3000155	0.42
	PLACE3000156	F-PLACE3000156	0.40
40	PLACE3000157	F-PLACE3000157	0.75
	PLACE3000160	F-PLACE3000160	0.44
	PLACE3000194	F-PLACE3000194	0.37
	PLACE3000197	F-PLACE3000197	0.37
45	PLACE3000221	F-PLACE3000221	0.49
	PLACE3000226	F-PLACE3000226	0.39
	PLACE3000242	F-PLACE3000242	0.94
	PLACE3000244	F-PLACE3000244	0.56
	PLACE3000254	F-PLACE3000254	0.60
50	PLACE3000304	F-PLACE3000304	0.42
	PLACE3000310	F-PLACE3000310	0.71
	PLACE3000320	F-PLACE3000320	0.37
	PLACE3000322	F-PLACE3000322	0.46
55	PLACE3000331	F-PLACE3000331	0.31
	PLACE3000339	F-PLACE3000339	0.45

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	PLACE3000352	F-PLACE3000352	0.65
	PLACE3000353	F-PLACE3000353	0.71
5	PLACE3000363	F-PLACE3000363	0.45
	PLACE3000405	F-PLACE3000405	0.52
	PLACE3000413	F-PLACE3000413	0.85
	PLACE3000416	F-PLACE3000416	0.94
10	PLACE3000425	F-PLACE3000425	0.40
	PLACE3000455	F-PLACE3000455	0.45
	PLACE3000477	F-PLACE3000477	0.79
	PLACE4000009	F-PLACE4000009	0.74
15	PLACE4000014	F-PLACE4000014	0.46
	PLACE4000034	F-PLACE4000034	0.89
	PLACE4000049	F-PLACE4000049	0.68
	PLACE4000052	F-PLACE4000052	0.80
20	PLACE4000063	F-PLACE4000063	0.69
	PLACE4000089	F-PLACE4000089	0.44
	PLACE4000106	F-PLACE4000106	0.34
	PLACE4000128	F-PLACE4000128	0.89
25	PLACE4000129	F-PLACE4000129	0.61
	PLACE4000131	F-PLACE4000131	0.55
	PLACE4000147	F-PLACE4000147	0.94
	PLACE4000156	F-PLACE4000156	0.37
30	PLACE4000192	F-PLACE4000192	0.88
	PLACE4000211	F-PLACE4000211	0.64
	PLACE4000222	F-PLACE4000222	0.40
	PLACE4000230	F-PLACE4000230	0.49
35	PLACE4000259	F-PLACE4000259	0.84
	PLACE4000261	F-PLACE4000261	0.42
	PLACE4000269	F-PLACE4000269	0.60
	PLACE4000270	F-PLACE4000270	0.61
40	PLACE4000300	F-PLACE4000300	0.85
	PLACE4000323	F-PLACE4000323	0.76
	PLACE4000326	F-PLACE4000326	0.86
	PLACE4000369	F-PLACE4000369	0.87
	PLACE4000387	F-PLACE4000387	0.41
45	PLACE4000392	F-PLACE4000392	0.39
	PLACE4000431	F-PLACE4000431	0.88
	PLACE4000445	F-PLACE4000445	0.40
	PLACE4000450	F-PLACE4000450	0.89
50	PLACE4000465	F-PLACE4000465	0.38
	PLACE4000487	F-PLACE4000487	0.44
	PLACE4000489	F-PLACE4000489	0.51
	PLACE4000521	F-PLACE4000521	0.38
55	PLACE4000522	F-PLACE4000522	0.33
	PLACE4000558	F-PLACE4000558	0.44

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	PLACE4000581	F-PLACE4000581	0. 59
	PLACE4000590	F-PLACE4000590	0. 38
	PLACE4000593	F-PLACE4000593	0. 33
5	PLACE4000612	F-PLACE4000612	0. 37
	PLACE4000638	F-PLACE4000638	0. 38
	PLACE4000650	F-PLACE4000650	0. 59
	PLACE4000654	F-PLACE4000654	0. 57
10	PLACE4000670	F-PLACE4000670	0. 71
	SKNMC1000011	F-SKNMC1000011	0. 94
	SKNMC1000013	F-SKNMC1000013	0. 66
	SKNMC1000046	F-SKNMC1000046	0. 72
15	SKNMC1000050	F-SKNMC1000050	0. 47
	SKNMC1000091	F-SKNMC1000091	0. 68
	THYRO1000017	F-THYRO1000017	0. 93
	THYRO1000034	F-THYRO1000034	0. 48
20	THYRO1000040	F-THYRO1000040	0. 32
	THYRO1000070	F-THYRO1000070	0. 75
	THYRO1000072	F-THYRO1000072	0. 94
	THYRO1000107	F-THYRO1000107	0. 94
25	THYRO1000121	F-THYRO1000121	0. 46
	THYRO1000124	F-THYRO1000124	0. 37
	THYRO1000163	F-THYRO1000163	0. 45
	THYRO1000173	F-THYRO1000173	0. 94
30	THYRO1000197	F-THYRO1000197	0. 78
	THYRO1000199	F-THYRO1000199	0. 55
	THYRO1000206	F-THYRO1000206	0. 59
	THYRO1000242	F-THYRO1000242	0. 69
35	THYRO1000253	F-THYRO1000253	0. 48
	THYRO1000270	F-THYRO1000270	0. 85
	THYRO1000288	F-THYRO1000288	0. 31
	THYRO1000320	F-THYRO1000320	0. 94
40	THYRO1000327	F-THYRO1000327	0. 44
	THYRO1000343	F-THYRO1000343	0. 82
	THYRO1000358	F-THYRO1000358	0. 89
	THYRO1000368	F-THYRO1000368	0. 94
	THYRO1000381	F-THYRO1000381	0. 64
45	THYRO1000387	F-THYRO1000387	0. 57
	THYRO1000394	F-THYRO1000394	0. 94
	THYRO1000395	F-THYRO1000395	0. 91
	THYRO1000401	F-THYRO1000401	0. 73
50	THYRO1000488	F-THYRO1000488	0. 94
	THYRO1000501	F-THYRO1000501	0. 74
	THYRO1000502	F-THYRO1000502	0. 64
	THYRO1000505	F-THYRO1000505	0. 47
55	THYRO1000569	F-THYRO1000569	0. 76
	THYRO1000570	F-THYRO1000570	0. 79

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	THYRO1000585	F-THYRO1000585	0.60
	THYRO1000605	F-THYRO1000605	0.79
	THYRO1000637	F-THYRO1000637	0.80
5	THYRO1000662	F-THYRO1000662	0.77
	THYRO1000666	F-THYRO1000666	0.47
	THYRO1000676	F-THYRO1000676	0.94
	THYRO1000684	F-THYRO1000684	0.72
10	THYRO1000712	F-THYRO1000712	0.94
	THYRO1000715	F-THYRO1000715	0.94
	THYRO1000734	F-THYRO1000734	0.44
	THYRO1000756	F-THYRO1000756	0.94
15	THYRO1000777	F-THYRO1000777	0.73
	THYRO1000783	F-THYRO1000783	0.74
	THYRO1000787	F-THYRO1000787	0.67
	THYRO1000829	F-THYRO1000829	0.43
20	THYRO1000855	F-THYRO1000855	0.91
	THYRO1000916	F-THYRO1000916	0.64
	THYRO1000926	F-THYRO1000926	0.39
	THYRO1000934	F-THYRO1000934	0.94
25	THYRO1000951	F-THYRO1000951	0.94
	THYRO1000952	F-THYRO1000952	0.67
	THYRO1000983	F-THYRO1000983	0.87
	THYRO1000984	F-THYRO1000984	0.94
30	THYRO1000988	F-THYRO1000988	0.37
	THYRO1001033	F-THYRO1001033	0.74
	THYRO1001100	F-THYRO1001100	0.74
	THYRO1001120	F-THYRO1001120	0.87
35	THYRO1001134	F-THYRO1001134	0.93
	THYRO1001142	F-THYRO1001142	0.61
	THYRO1001173	F-THYRO1001173	0.50
	THYRO1001189	F-THYRO1001189	0.40
40	THYRO1001204	F-THYRO1001204	0.94
	THYRO1001213	F-THYRO1001213	0.94
	THYRO1001271	F-THYRO1001271	0.93
	THYRO1001287	F-THYRO1001287	0.32
45	THYRO1001313	F-THYRO1001313	0.53
	THYRO1001320	F-THYRO1001320	0.68
	THYRO1001347	F-THYRO1001347	0.68
	THYRO1001363	F-THYRO1001363	0.39
	THYRO1001374	F-THYRO1001374	0.94
50	THYRO1001403	F-THYRO1001403	0.49
	THYRO1001405	F-THYRO1001405	0.90
	THYRO1001406	F-THYRO1001406	0.67
	THYRO1001458	F-THYRO1001458	0.94
55	THYRO1001487	F-THYRO1001487	0.63
	THYRO1001537	F-THYRO1001537	0.94

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	THYRO1001584	F-THYRO1001584	0.77
	THYRO1001602	F-THYRO1001602	0.64
	THYRO1001605	F-THYRO1001605	0.52
5	THYRO1001637	F-THYRO1001637	0.68
	THYRO1001656	F-THYRO1001656	0.82
	THYRO1001661	F-THYRO1001661	0.94
	THYRO1001671	F-THYRO1001671	0.94
10	THYRO1001703	F-THYRO1001703	0.87
	THYRO1001721	F-THYRO1001721	0.38
	THYRO1001738	F-THYRO1001738	0.51
	THYRO1001793	F-THYRO1001793	0.84
15	THYRO1001809	F-THYRO1001809	0.73
	THYRO1001828	F-THYRO1001828	0.88
	THYRO1001854	F-THYRO1001854	0.47
	VESEN1000122	F-VESEN1000122	0.36
20	Y79AA1000013	F-Y79AA1000013	0.94
	Y79AA1000037	F-Y79AA1000037	0.94
	Y79AA1000059	F-Y79AA1000059	0.94
	Y79AA1000131	F-Y79AA1000131	0.56
25	Y79AA1000181	F-Y79AA1000181	0.59
	Y79AA1000202	F-Y79AA1000202	0.45
	Y79AA1000214	F-Y79AA1000214	0.93
	Y79AA1000230	F-Y79AA1000230	0.94
	Y79AA1000231	F-Y79AA1000231	0.36
30	Y79AA1000258	F-Y79AA1000258	0.36
	Y79AA1000268	F-Y79AA1000268	0.92
	Y79AA1000313	F-Y79AA1000313	0.91
	Y79AA1000328	F-Y79AA1000328	0.94
35	Y79AA1000342	F-Y79AA1000342	0.83
	Y79AA1000349	F-Y79AA1000349	0.50
	Y79AA1000355	F-Y79AA1000355	0.94
	Y79AA1000368	F-Y79AA1000368	0.91
40	Y79AA1000420	F-Y79AA1000420	0.94
	Y79AA1000469	F-Y79AA1000469	0.51
	Y79AA1000480	F-Y79AA1000480	0.94
	Y79AA1000539	F-Y79AA1000539	0.74
45	Y79AA1000540	F-Y79AA1000540	0.94
	Y79AA1000560	F-Y79AA1000560	0.93
	Y79AA1000574	F-Y79AA1000574	0.87
	Y79AA1000589	F-Y79AA1000589	0.94
50	Y79AA1000627	F-Y79AA1000627	0.55
	Y79AA1000705	F-Y79AA1000705	0.76
	Y79AA1000734	F-Y79AA1000734	0.60
	Y79AA1000748	F-Y79AA1000748	0.45
	Y79AA1000752	F-Y79AA1000752	0.94
55	Y79AA1000774	F-Y79AA1000774	0.38

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	Y79AA1000782	F-Y79AA1000782	0. 47
	Y79AA1000784	F-Y79AA1000784	0. 93
	Y79AA1000794	F-Y79AA1000794	0. 67
5	Y79AA1000800	F-Y79AA1000800	0. 94
	Y79AA1000824	F-Y79AA1000824	0. 90
	Y79AA1000827	F-Y79AA1000827	0. 94
	Y79AA1000833	F-Y79AA1000833	0. 34
10	Y79AA1000850	F-Y79AA1000850	0. 92
	Y79AA1000962	F-Y79AA1000962	0. 69
	Y79AA1000966	F-Y79AA1000966	0. 64
	Y79AA1000968	F-Y79AA1000968	0. 64
15	Y79AA1000976	F-Y79AA1000976	0. 66
	Y79AA1000985	F-Y79AA1000985	0. 66
	Y79AA1001023	F-Y79AA1001023	0. 33
	Y79AA1001041	F-Y79AA1001041	0. 90
20	Y79AA1001048	F-Y79AA1001048	0. 81
	Y79AA1001068	F-Y79AA1001068	0. 64
	Y79AA1001077	F-Y79AA1001077	0. 78
	Y79AA1001078	F-Y79AA1001078	0. 92
25	Y79AA1001105	F-Y79AA1001105	0. 70
	Y79AA1001145	F-Y79AA1001145	0. 46
	Y79AA1001177	F-Y79AA1001177	0. 74
	Y79AA1001185	F-Y79AA1001185	0. 74
30	Y79AA1001211	F-Y79AA1001211	0. 94
	Y79AA1001216	F-Y79AA1001216	0. 61
	Y79AA1001228	F-Y79AA1001228	0. 56
	Y79AA1001233	F-Y79AA1001233	0. 83
35	Y79AA1001236	F-Y79AA1001236	0. 32
	Y79AA1001281	F-Y79AA1001281	0. 51
	Y79AA1001299	F-Y79AA1001299	0. 94
	Y79AA1001312	F-Y79AA1001312	0. 53
	Y79AA1001323	F-Y79AA1001323	0. 76
40	Y79AA1001391	F-Y79AA1001391	0. 83
	Y79AA1001394	F-Y79AA1001394	0. 94
	Y79AA1001402	F-Y79AA1001402	0. 90
	Y79AA1001493	F-Y79AA1001493	0. 94
45	Y79AA1001511	F-Y79AA1001511	0. 47
	Y79AA1001533	F-Y79AA1001533	0. 92
	Y79AA1001541	F-Y79AA1001541	0. 32
	Y79AA1001548	F-Y79AA1001548	0. 50
50	Y79AA1001555	F-Y79AA1001555	0. 92
	Y79AA1001581	F-Y79AA1001581	0. 94
	Y79AA1001585	F-Y79AA1001585	0. 80
	Y79AA1001603	F-Y79AA1001603	0. 94
55	Y79AA1001613	F-Y79AA1001613	0. 94
	Y79AA1001647	F-Y79AA1001647	0. 49

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	Y79AA1001665	F-Y79AA1001665	0.78
	Y79AA1001679	F-Y79AA1001679	0.94
	Y79AA1001696	F-Y79AA1001696	0.60
5	Y79AA1001705	F-Y79AA1001705	0.67
	Y79AA1001711	F-Y79AA1001711	0.59
	Y79AA1001781	F-Y79AA1001781	0.74
10	Y79AA1001805	F-Y79AA1001805	0.79
	Y79AA1001827	F-Y79AA1001827	0.84
	Y79AA1001846	F-Y79AA1001846	0.34
	Y79AA1001866	F-Y79AA1001866	0.75
15	Y79AA1001874	F-Y79AA1001874	0.59
	Y79AA1001923	F-Y79AA1001923	0.32
	Y79AA1001963	F-Y79AA1001963	0.51
	Y79AA1002027	F-Y79AA1002027	0.39
20	Y79AA1002083	F-Y79AA1002083	0.65
	Y79AA1002089	F-Y79AA1002089	0.94
	Y79AA1002093	F-Y79AA1002093	0.89
	Y79AA1002115	F-Y79AA1002115	0.31
25	Y79AA1002125	F-Y79AA1002125	0.76
	Y79AA1002139	F-Y79AA1002139	0.32
	Y79AA1002204	F-Y79AA1002204	0.94
30	Y79AA1002208	F-Y79AA1002208	0.76
	Y79AA1002209	F-Y79AA1002209	0.91
	Y79AA1002210	F-Y79AA1002210	0.60
	Y79AA1002229	F-Y79AA1002229	0.76
35	Y79AA1002234	F-Y79AA1002234	0.94
	Y79AA1002246	F-Y79AA1002246	0.65
	Y79AA1002258	F-Y79AA1002258	0.79
	Y79AA1002298	F-Y79AA1002298	0.83
40	Y79AA1002307	F-Y79AA1002307	0.52
	Y79AA1002311	F-Y79AA1002311	0.92
	Y79AA1002351	F-Y79AA1002351	0.85
	Y79AA1002361	F-Y79AA1002361	0.90
45	Y79AA1002399	F-Y79AA1002399	0.94
	Y79AA1002407	F-Y79AA1002407	0.83
	Y79AA1002416	F-Y79AA1002416	0.77
50	Y79AA1002431	F-Y79AA1002431	0.61
	Y79AA1002433	F-Y79AA1002433	0.81
	Y79AA1002472	F-Y79AA1002472	0.39
	Y79AA1002482	F-Y79AA1002482	0.88
55	Y79AA1002487	F-Y79AA1002487	0.87

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Table 10

Selected clones having the maximal ATGpr1 score of not more than 0.3 (1857 clones including the 9 clones whose 5'-end sequence does not contain the ATG codon. Blank of the maximal ATGpr1 score indicates that clones whose 5'-end sequence does not contain the ATG codon).

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	clone name	name of sequence	maximal ATGpr1 score
5			
	HEMBA1000042	F-HEMBA1000042	0.08
	HEMBA1000111	F-HEMBA1000111	0.1
10	HEMBA1000180	F-HEMBA1000180	0.09
	HEMBA1000213	F-HEMBA1000213	0.21
	HEMBA1000243	F-HEMBA1000243	0.1
	HEMBA1000251	F-HEMBA1000251	0.08
15	HEMBA1000264	F-HEMBA1000264	0.08
	HEMBA1000280	F-HEMBA1000280	0.13
	HEMBA1000282	F-HEMBA1000282	0.1
	HEMBA1000333	F-HEMBA1000333	0.17
20	HEMBA1000338	F-HEMBA1000338	0.16
	HEMBA1000351	F-HEMBA1000351	0.17
	HEMBA1000355	F-HEMBA1000355	0.11
	HEMBA1000357	F-HEMBA1000357	0.08
25	HEMBA1000366	F-HEMBA1000366	0.11
	HEMBA1000376	F-HEMBA1000376	0.1
	HEMBA1000390	F-HEMBA1000390	0.11
	HEMBA1000411	F-HEMBA1000411	0.07
30	HEMBA1000418	F-HEMBA1000418	0.06
	HEMBA1000422	F-HEMBA1000422	0.07
	HEMBA1000428	F-HEMBA1000428	0.08
	HEMBA1000434	F-HEMBA1000434	0.11
35	HEMBA1000442	F-HEMBA1000442	0.1
	HEMBA1000459	F-HEMBA1000459	0.08
	HEMBA1000464	F-HEMBA1000464	0.12
	HEMBA1000469	F-HEMBA1000469	0.07
40	HEMBA1000504	F-HEMBA1000504	0.1
	HEMBA1000518	F-HEMBA1000518	0.23
	HEMBA1000519	F-HEMBA1000519	0.3
	HEMBA1000540	F-HEMBA1000540	0.06
45	HEMBA1000545	F-HEMBA1000545	0.18
	HEMBA1000557	F-HEMBA1000557	0.19
	HEMBA1000563	F-HEMBA1000563	0.17
	HEMBA1000569	F-HEMBA1000569	0.12
50	HEMBA1000575	F-HEMBA1000575	0.14
	HEMBA1000604	F-HEMBA1000604	0.1
	HEMBA1000622	F-HEMBA1000622	0.08
	HEMBA1000655	F-HEMBA1000655	0.19
55	HEMBA1000662	F-HEMBA1000662	0.15
	HEMBA1000673	F-HEMBA1000673	0.08
	HEMBA1000702	F-HEMBA1000702	0.12

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	HEMBA1000705	F-HEMBA1000705	0.06
	HEMBA1000722	F-HEMBA1000722	0.17
	HEMBA1000726	F-HEMBA1000726	0.08
5	HEMBA1000747	F-HEMBA1000747	0.06
	HEMBA1000749	F-HEMBA1000749	0.09
	HEMBA1000769	F-HEMBA1000769	0.19
	HEMBA1000773	F-HEMBA1000773	0.08
10	HEMBA1000774	F-HEMBA1000774	0.17
	HEMBA1000791	F-HEMBA1000791	0.08
	HEMBA1000822	F-HEMBA1000822	0.19
	HEMBA1000827	F-HEMBA1000827	0.09
15	HEMBA1000843	F-HEMBA1000843	0.12
	HEMBA1000852	F-HEMBA1000852	0.16
	HEMBA1000870	F-HEMBA1000870	0.14
	HEMBA1000876	F-HEMBA1000876	0.15
20	HEMBA1000908	F-HEMBA1000908	0.17
	HEMBA1000934	F-HEMBA1000934	0.2
	HEMBA1000943	F-HEMBA1000943	0.08
	HEMBA1000960	F-HEMBA1000960	0.09
25	HEMBA1000972	F-HEMBA1000972	0.12
	HEMBA1000974	F-HEMBA1000974	0.08
	HEMBA1000985	F-HEMBA1000985	0.06
	HEMBA1000991	F-HEMBA1000991	0.23
30	HEMBA1001007	F-HEMBA1001007	0.06
	HEMBA1001017	F-HEMBA1001017	0.06
	HEMBA1001019	F-HEMBA1001019	0.08
	HEMBA1001020	F-HEMBA1001020	0.15
35	HEMBA1001024	F-HEMBA1001024	0.1
	HEMBA1001026	F-HEMBA1001026	0.13
	HEMBA1001051	F-HEMBA1001051	0.27
	HEMBA1001060	F-HEMBA1001060	0.11
40	HEMBA1001071	F-HEMBA1001071	0.1
	HEMBA1001077	F-HEMBA1001077	0.07
	HEMBA1001094	F-HEMBA1001094	0.07
	HEMBA1001099	F-HEMBA1001099	0.08
45	HEMBA1001121	F-HEMBA1001121	0.25
	HEMBA1001123	F-HEMBA1001123	0.05
	HEMBA1001172	F-HEMBA1001172	0.08
	HEMBA1001208	F-HEMBA1001208	0.11
50	HEMBA1001226	F-HEMBA1001226	0.27
	HEMBA1001265	F-HEMBA1001265	0.06
	HEMBA1001294	F-HEMBA1001294	0.12
	HEMBA1001299	F-HEMBA1001299	0.2
	HEMBA1001319	F-HEMBA1001319	0.3
55	HEMBA1001323	F-HEMBA1001323	0.07
	HEMBA1001327	F-HEMBA1001327	0.08

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	HEMBA1001330	F-HEMBA1001330	0. 11
	HEMBA1001375	F-HEMBA1001375	0. 15
	HEMBA1001383	F-HEMBA1001383	0. 11
5	HEMBA1001391	F-HEMBA1001391	0. 21
	HEMBA1001411	F-HEMBA1001411	0. 06
	HEMBA1001432	F-HEMBA1001432	0. 07
	HEMBA1001433	F-HEMBA1001433	0. 24
10	HEMBA1001435	F-HEMBA1001435	0. 16
	HEMBA1001442	F-HEMBA1001442	0. 22
	HEMBA1001454	F-HEMBA1001454	0. 11
	HEMBA1001463	F-HEMBA1001463	0. 08
15	HEMBA1001478	F-HEMBA1001478	0. 13
	HEMBA1001515	F-HEMBA1001515	0. 3
	HEMBA1001517	F-HEMBA1001517	0. 07
	HEMBA1001522	F-HEMBA1001522	0. 3
20	HEMBA1001557	F-HEMBA1001557	0. 06
	HEMBA1001566	F-HEMBA1001566	0. 1
	HEMBA1001585	F-HEMBA1001585	0. 09
	HEMBA1001589	F-HEMBA1001589	0. 06
25	HEMBA1001608	F-HEMBA1001608	0. 17
	HEMBA1001636	F-HEMBA1001636	0. 15
	HEMBA1001651	F-HEMBA1001651	0. 23
	HEMBA1001658	F-HEMBA1001658	0. 17
30	HEMBA1001675	F-HEMBA1001675	0. 11
	HEMBA1001678	F-HEMBA1001678	0. 06
	HEMBA1001681	F-HEMBA1001681	0. 1
	HEMBA1001709	F-HEMBA1001709	0. 29
35	HEMBA1001712	F-HEMBA1001712	0. 08
	HEMBA1001718	F-HEMBA1001718	0. 07
	HEMBA1001734	F-HEMBA1001734	0. 07
	HEMBA1001745	F-HEMBA1001745	0. 09
40	HEMBA1001761	F-HEMBA1001761	0. 09
	HEMBA1001784	F-HEMBA1001784	0. 11
	HEMBA1001791	F-HEMBA1001791	0. 15
	HEMBA1001803	F-HEMBA1001803	0. 21
	HEMBA1001808	F-HEMBA1001808	0. 18
45	HEMBA1001820	F-HEMBA1001820	0. 08
	HEMBA1001835	F-HEMBA1001835	0. 29
	HEMBA1001844	F-HEMBA1001844	0. 11
	HEMBA1001861	F-HEMBA1001861	0. 2
50	HEMBA1001888	F-HEMBA1001888	0. 18
	HEMBA1001918	F-HEMBA1001918	0. 09
	HEMBA1001940	F-HEMBA1001940	0. 21
	HEMBA1001942	F-HEMBA1001942	0. 17
55	HEMBA1001945	F-HEMBA1001945	0. 06
	HEMBA1001960	F-HEMBA1001960	

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	HEMBA1001962	F-HEMBA1001962	0.08
	HEMBA1001964	F-HEMBA1001964	0.15
	HEMBA1001979	F-HEMBA1001979	0.07
5	HEMBA1001991	F-HEMBA1001991	0.08
	HEMBA1002003	F-HEMBA1002003	0.11
	HEMBA1002008	F-HEMBA1002008	0.08
	HEMBA1002022	F-HEMBA1002022	0.08
10	HEMBA1002039	F-HEMBA1002039	0.2
	HEMBA1002100	F-HEMBA1002100	0.07
	HEMBA1002113	F-HEMBA1002113	0.09
	HEMBA1002139	F-HEMBA1002139	0.2
15	HEMBA1002144	F-HEMBA1002144	0.11
	HEMBA1002153	F-HEMBA1002153	0.09
	HEMBA1002160	F-HEMBA1002160	0.15
	HEMBA1002162	F-HEMBA1002162	0.19
20	HEMBA1002166	F-HEMBA1002166	0.06
	HEMBA1002185	F-HEMBA1002185	0.11
	HEMBA1002204	F-HEMBA1002204	0.09
	HEMBA1002226	F-HEMBA1002226	0.13
25	HEMBA1002253	F-HEMBA1002253	0.05
	HEMBA1002257	F-HEMBA1002257	0.09
	HEMBA1002270	F-HEMBA1002270	0.06
	HEMBA1002321	F-HEMBA1002321	0.07
30	HEMBA1002328	F-HEMBA1002328	0.06
	HEMBA1002337	F-HEMBA1002337	0.11
	HEMBA1002348	F-HEMBA1002348	0.12
	HEMBA1002349	F-HEMBA1002349	0.05
35	HEMBA1002381	F-HEMBA1002381	0.09
	HEMBA1002389	F-HEMBA1002389	0.14
	HEMBA1002486	F-HEMBA1002486	0.1
	HEMBA1002498	F-HEMBA1002498	0.17
40	HEMBA1002538	F-HEMBA1002538	0.27
	HEMBA1002552	F-HEMBA1002552	0.23
	HEMBA1002555	F-HEMBA1002555	0.11
	HEMBA1002558	F-HEMBA1002558	0.11
	HEMBA1002561	F-HEMBA1002561	0.11
45	HEMBA1002590	F-HEMBA1002590	0.06
	HEMBA1002592	F-HEMBA1002592	0.17
	HEMBA1002621	F-HEMBA1002621	0.12
	HEMBA1002628	F-HEMBA1002628	0.06
50	HEMBA1002629	F-HEMBA1002629	0.23
	HEMBA1002645	F-HEMBA1002645	0.12
	HEMBA1002651	F-HEMBA1002651	0.08
	HEMBA1002659	F-HEMBA1002659	0.28
55	HEMBA1002661	F-HEMBA1002661	0.28
	HEMBA1002666	F-HEMBA1002666	0.16

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	HEMBA1002678	F-HEMBA1002678	0.07
	HEMBA1002679	F-HEMBA1002679	0.14
	HEMBA1002712	F-HEMBA1002712	0.26
5	HEMBA1002716	F-HEMBA1002716	0.14
	HEMBA1002728	F-HEMBA1002728	0.09
	HEMBA1002730	F-HEMBA1002730	0.07
	HEMBA1002742	F-HEMBA1002742	0.09
10	HEMBA1002748	F-HEMBA1002748	0.17
	HEMBA1002780	F-HEMBA1002780	0.1
	HEMBA1002801	F-HEMBA1002801	0.1
	HEMBA1002826	F-HEMBA1002826	0.1
15	HEMBA1002833	F-HEMBA1002833	0.14
	HEMBA1002886	F-HEMBA1002886	0.09
	HEMBA1002896	F-HEMBA1002896	0.05
	HEMBA1002921	F-HEMBA1002921	0.25
20	HEMBA1002924	F-HEMBA1002924	0.12
	HEMBA1002934	F-HEMBA1002934	0.2
	HEMBA1002944	F-HEMBA1002944	0.12
	HEMBA1002968	F-HEMBA1002968	0.12
25	HEMBA1003034	F-HEMBA1003034	0.06
	HEMBA1003037	F-HEMBA1003037	0.11
	HEMBA1003064	F-HEMBA1003064	0.09
	HEMBA1003071	F-HEMBA1003071	0.27
30	HEMBA1003083	F-HEMBA1003083	0.18
	HEMBA1003086	F-HEMBA1003086	0.06
	HEMBA1003098	F-HEMBA1003098	0.09
	HEMBA1003133	F-HEMBA1003133	0.12
35	HEMBA1003142	F-HEMBA1003142	0.29
	HEMBA1003166	F-HEMBA1003166	0.1
	HEMBA1003197	F-HEMBA1003197	0.1
	HEMBA1003202	F-HEMBA1003202	0.17
40	HEMBA1003204	F-HEMBA1003204	0.13
	HEMBA1003212	F-HEMBA1003212	0.13
	HEMBA1003220	F-HEMBA1003220	0.14
	HEMBA1003229	F-HEMBA1003229	0.19
	HEMBA1003273	F-HEMBA1003273	0.1
45	HEMBA1003276	F-HEMBA1003276	0.12
	HEMBA1003278	F-HEMBA1003278	0.09
	HEMBA1003296	F-HEMBA1003296	0.07
50	HEMBA1003304	F-HEMBA1003304	0.09
	HEMBA1003309	F-HEMBA1003309	0.07
	HEMBA1003314	F-HEMBA1003314	0.21
	HEMBA1003328	F-HEMBA1003328	0.13
	HEMBA1003330	F-HEMBA1003330	0.08
55	HEMBA1003348	F-HEMBA1003348	0.17
	HEMBA1003373	F-HEMBA1003373	0.21

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	HEMBA1003376	F-HEMBA1003376	0.14
	HEMBA1003384	F-HEMBA1003384	0.07
	HEMBA1003531	F-HEMBA1003531	0.2
5	HEMBA1003548	F-HEMBA1003548	0.08
	HEMBA1003571	F-HEMBA1003571	0.13
	HEMBA1003579	F-HEMBA1003579	0.13
	HEMBA1003595	F-HEMBA1003595	0.08
10	HEMBA1003597	F-HEMBA1003597	0.1
	HEMBA1003598	F-HEMBA1003598	0.12
	HEMBA1003622	F-HEMBA1003622	0.08
	HEMBA1003630	F-HEMBA1003630	0.08
15	HEMBA1003637	F-HEMBA1003637	0.07
	HEMBA1003640	F-HEMBA1003640	0.16
	HEMBA1003656	F-HEMBA1003656	0.13
	HEMBA1003714	F-HEMBA1003714	0.12
20	HEMBA1003715	F-HEMBA1003715	0.1
	HEMBA1003725	F-HEMBA1003725	0.08
	HEMBA1003733	F-HEMBA1003733	0.2
	HEMBA1003758	F-HEMBA1003758	0.06
25	HEMBA1003773	F-HEMBA1003773	0.11
	HEMBA1003784	F-HEMBA1003784	0.09
	HEMBA1003856	F-HEMBA1003856	0.25
	HEMBA1003885	F-HEMBA1003885	0.09
30	HEMBA1003902	F-HEMBA1003902	0.08
	HEMBA1003908	F-HEMBA1003908	0.08
	HEMBA1003926	F-HEMBA1003926	0.09
	HEMBA1003937	F-HEMBA1003937	0.2
35	HEMBA1003939	F-HEMBA1003939	0.12
	HEMBA1003942	F-HEMBA1003942	0.1
	HEMBA1003950	F-HEMBA1003950	0.09
	HEMBA1003958	F-HEMBA1003958	0.07
40	HEMBA1003976	F-HEMBA1003976	0.28
	HEMBA1003987	F-HEMBA1003987	0.24
	HEMBA1004000	F-HEMBA1004000	0.16
	HEMBA1004012	F-HEMBA1004012	0.12
	HEMBA1004015	F-HEMBA1004015	0.23
45	HEMBA1004024	F-HEMBA1004024	0.13
	HEMBA1004038	F-HEMBA1004038	0.09
	HEMBA1004042	F-HEMBA1004042	0.09
	HEMBA1004045	F-HEMBA1004045	0.09
50	HEMBA1004049	F-HEMBA1004049	0.09
	HEMBA1004132	F-HEMBA1004132	0.08
	HEMBA1004138	F-HEMBA1004138	0.07
	HEMBA1004164	F-HEMBA1004164	0.08
55	HEMBA1004225	F-HEMBA1004225	0.1
	HEMBA1004241	F-HEMBA1004241	0.08

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	HEMBA1004267	F-HEMBA1004267	0.09
	HEMBA1004272	F-HEMBA1004272	0.09
	HEMBA1004295	F-HEMBA1004295	0.19
5	HEMBA1004306	F-HEMBA1004306	0.07
	HEMBA1004312	F-HEMBA1004312	0.26
	HEMBA1004323	F-HEMBA1004323	0.13
	HEMBA1004334	F-HEMBA1004334	0.06
10	HEMBA1004354	F-HEMBA1004354	0.1
	HEMBA1004356	F-HEMBA1004356	0.07
	HEMBA1004366	F-HEMBA1004366	0.14
	HEMBA1004394	F-HEMBA1004394	0.08
15	HEMBA1004396	F-HEMBA1004396	0.05
	HEMBA1004405	F-HEMBA1004405	0.17
	HEMBA1004429	F-HEMBA1004429	0.22
	HEMBA1004433	F-HEMBA1004433	0.29
20	HEMBA1004460	F-HEMBA1004460	0.11
	HEMBA1004461	F-HEMBA1004461	0.11
	HEMBA1004482	F-HEMBA1004482	0.15
	HEMBA1004506	F-HEMBA1004506	0.05
25	HEMBA1004538	F-HEMBA1004538	0.15
	HEMBA1004577	F-HEMBA1004577	0.17
	HEMBA1004586	F-HEMBA1004586	0.06
	HEMBA1004617	F-HEMBA1004617	0.11
30	HEMBA1004629	F-HEMBA1004629	0.11
	HEMBA1004631	F-HEMBA1004631	0.1
	HEMBA1004666	F-HEMBA1004666	0.08
	HEMBA1004670	F-HEMBA1004670	0.15
35	HEMBA1004672	F-HEMBA1004672	0.14
	HEMBA1004730	F-HEMBA1004730	0.15
	HEMBA1004733	F-HEMBA1004733	0.12
	HEMBA1004748	F-HEMBA1004748	0.1
40	HEMBA1004770	F-HEMBA1004770	0.15
	HEMBA1004778	F-HEMBA1004778	0.14
	HEMBA1004803	F-HEMBA1004803	0.13
	HEMBA1004807	F-HEMBA1004807	0.18
	HEMBA1004816	F-HEMBA1004816	0.06
45	HEMBA1004820	F-HEMBA1004820	0.11
	HEMBA1004865	F-HEMBA1004865	0.17
	HEMBA1004880	F-HEMBA1004880	0.28
50	HEMBA1004900	F-HEMBA1004900	0.11
	HEMBA1004909	F-HEMBA1004909	0.11
	HEMBA1004918	F-HEMBA1004918	0.09
	HEMBA1004956	F-HEMBA1004956	0.05
	HEMBA1004960	F-HEMBA1004960	0.21
55	HEMBA1004978	F-HEMBA1004978	0.1
	HEMBA1004983	F-HEMBA1004983	0.28

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	HEMBA1004995	F-HEMBA1004995	0.24
	HEMBA1005008	F-HEMBA1005008	0.07
	HEMBA1005039	F-HEMBA1005039	0.08
5	HEMBA1005062	F-HEMBA1005062	0.11
	HEMBA1005123	F-HEMBA1005123	0.07
	HEMBA1005152	F-HEMBA1005152	0.11
	HEMBA1005159	F-HEMBA1005159	0.1
10	HEMBA1005232	F-HEMBA1005232	0.1
	HEMBA1005241	F-HEMBA1005241	0.14
	HEMBA1005251	F-HEMBA1005251	0.29
	HEMBA1005274	F-HEMBA1005274	0.06
15	HEMBA1005275	F-HEMBA1005275	0.12
	HEMBA1005293	F-HEMBA1005293	0.06
	HEMBA1005304	F-HEMBA1005304	0.09
	HEMBA1005311	F-HEMBA1005311	0.2
20	HEMBA1005315	F-HEMBA1005315	0.07
	HEMBA1005318	F-HEMBA1005318	0.08
	HEMBA1005353	F-HEMBA1005353	0.12
	HEMBA1005359	F-HEMBA1005359	0.15
25	HEMBA1005372	F-HEMBA1005372	0.07
	HEMBA1005374	F-HEMBA1005374	0.09
	HEMBA1005389	F-HEMBA1005389	0.1
	HEMBA1005408	F-HEMBA1005408	0.09
30	HEMBA1005410	F-HEMBA1005410	0.07
	HEMBA1005426	F-HEMBA1005426	0.16
	HEMBA1005443	F-HEMBA1005443	0.17
	HEMBA1005447	F-HEMBA1005447	0.25
35	HEMBA1005497	F-HEMBA1005497	0.09
	HEMBA1005500	F-HEMBA1005500	0.08
	HEMBA1005506	F-HEMBA1005506	0.17
	HEMBA1005508	F-HEMBA1005508	0.12
40	HEMBA1005511	F-HEMBA1005511	0.1
	HEMBA1005520	F-HEMBA1005520	0.07
	HEMBA1005552	F-HEMBA1005552	0.05
	HEMBA1005568	F-HEMBA1005568	0.06
45	HEMBA1005570	F-HEMBA1005570	0.1
	HEMBA1005577	F-HEMBA1005577	0.13
	HEMBA1005588	F-HEMBA1005588	0.25
	HEMBA1005593	F-HEMBA1005593	0.13
	HEMBA1005606	F-HEMBA1005606	0.16
50	HEMBA1005616	F-HEMBA1005616	0.15
	HEMBA1005627	F-HEMBA1005627	0.11
	HEMBA1005631	F-HEMBA1005631	0.07
	HEMBA1005632	F-HEMBA1005632	0.07
55	HEMBA1005634	F-HEMBA1005634	0.07
	HEMBA1005670	F-HEMBA1005670	0.11

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	HEMBA1005679	F-HEMBA1005679	0.22
	HEMBA1005699	F-HEMBA1005699	0.08
	HEMBA1005705	F-HEMBA1005705	0.08
5	HEMBA1005717	F-HEMBA1005717	0.17
	HEMBA1005765	F-HEMBA1005765	0.08
	HEMBA1005780	F-HEMBA1005780	0.16
	HEMBA1005829	F-HEMBA1005829	0.09
10	HEMBA1005853	F-HEMBA1005853	0.06
	HEMBA1005894	F-HEMBA1005894	0.16
	HEMBA1005909	F-HEMBA1005909	0.13
	HEMBA1005911	F-HEMBA1005911	0.22
15	HEMBA1005921	F-HEMBA1005921	0.1
	HEMBA1005931	F-HEMBA1005931	0.16
	HEMBA1005934	F-HEMBA1005934	0.1
	HEMBA1005962	F-HEMBA1005962	0.07
20	HEMBA1005999	F-HEMBA1005999	0.14
	HEMBA1006002	F-HEMBA1006002	0.09
	HEMBA1006005	F-HEMBA1006005	0.2
	HEMBA1006036	F-HEMBA1006036	0.24
25	HEMBA1006042	F-HEMBA1006042	0.11
	HEMBA1006067	F-HEMBA1006067	0.09
	HEMBA1006090	F-HEMBA1006090	0.09
	HEMBA1006124	F-HEMBA1006124	0.05
30	HEMBA1006142	F-HEMBA1006142	0.13
	HEMBA1006158	F-HEMBA1006158	0.27
	HEMBA1006253	F-HEMBA1006253	0.29
	HEMBA1006259	F-HEMBA1006259	0.11
35	HEMBA1006268	F-HEMBA1006268	0.11
	HEMBA1006328	F-HEMBA1006328	0.06
	HEMBA1006334	F-HEMBA1006334	0.08
	HEMBA1006359	F-HEMBA1006359	0.22
40	HEMBA1006364	F-HEMBA1006364	0.23
	HEMBA1006380	F-HEMBA1006380	0.09
	HEMBA1006416	F-HEMBA1006416	0.25
	HEMBA1006419	F-HEMBA1006419	0.08
	HEMBA1006421	F-HEMBA1006421	0.26
45	HEMBA1006426	F-HEMBA1006426	0.17
	HEMBA1006438	F-HEMBA1006438	0.08
	HEMBA1006446	F-HEMBA1006446	0.11
	HEMBA1006461	F-HEMBA1006461	0.15
50	HEMBA1006471	F-HEMBA1006471	0.06
	HEMBA1006486	F-HEMBA1006486	0.11
	HEMBA1006489	F-HEMBA1006489	0.09
	HEMBA1006540	F-HEMBA1006540	0.23
55	HEMBA1006546	F-HEMBA1006546	0.07
	HEMBA1006562	F-HEMBA1006562	0.12

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	HEMBA1006569	F-HEMBA1006569	
	HEMBA1006595	F-HEMBA1006595	0.08
	HEMBA1006597	F-HEMBA1006597	0.17
5	HEMBA1006617	F-HEMBA1006617	0.07
	HEMBA1006635	F-HEMBA1006635	0.07
	HEMBA1006639	F-HEMBA1006639	0.25
	HEMBA1006648	F-HEMBA1006648	0.24
10	HEMBA1006653	F-HEMBA1006653	0.09
	HEMBA1006665	F-HEMBA1006665	0.17
	HEMBA1006676	F-HEMBA1006676	0.17
	HEMBA1006695	F-HEMBA1006695	0.1
15	HEMBA1006696	F-HEMBA1006696	0.05
	HEMBA1006744	F-HEMBA1006744	0.12
	HEMBA1006779	F-HEMBA1006779	0.07
	HEMBA1006780	F-HEMBA1006780	0.23
20	HEMBA1006821	F-HEMBA1006821	0.08
	HEMBA1006824	F-HEMBA1006824	0.09
	HEMBA1006849	F-HEMBA1006849	0.05
	HEMBA1006865	F-HEMBA1006865	0.1
25	HEMBA1006921	F-HEMBA1006921	0.22
	HEMBA1006929	F-HEMBA1006929	0.15
	HEMBA1006938	F-HEMBA1006938	0.07
	HEMBA1006949	F-HEMBA1006949	0.27
30	HEMBA1007017	F-HEMBA1007017	0.07
	HEMBA1007045	F-HEMBA1007045	0.14
	HEMBA1007051	F-HEMBA1007051	0.19
	HEMBA1007073	F-HEMBA1007073	0.22
35	HEMBA1007078	F-HEMBA1007078	0.12
	HEMBA1007113	F-HEMBA1007113	0.12
	HEMBA1007129	F-HEMBA1007129	0.18
	HEMBA1007147	F-HEMBA1007147	0.08
40	HEMBA1007206	F-HEMBA1007206	0.11
	HEMBA1007256	F-HEMBA1007256	0.13
	HEMBA1007273	F-HEMBA1007273	0.05
	HEMBA1007279	F-HEMBA1007279	0.09
	HEMBA1007288	F-HEMBA1007288	0.06
45	HEMBA1007322	F-HEMBA1007322	0.12
	HEMBA1007327	F-HEMBA1007327	0.12
	HEMBA1007341	F-HEMBA1007341	0.1
	HEMBA1007347	F-HEMBA1007347	0.14
50	HEMBA1000005	F-HEMBA1000005	0.13
	HEMBA1000039	F-HEMBA1000039	0.07
	HEMBA1000044	F-HEMBA1000044	0.08
	HEMBA1000050	F-HEMBA1000050	0.07
55	HEMBA1000054	F-HEMBA1000054	0.12
	HEMBA1000055	F-HEMBA1000055	0.2

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	HEMBB1000059	F-HEMBB1000059	0.08
	HEMBB1000089	F-HEMBB1000089	0.09
	HEMBB1000099	F-HEMBB1000099	0.17
5	HEMBB1000113	F-HEMBB1000113	0.12
	HEMBB1000141	F-HEMBB1000141	0.13
	HEMBB1000144	F-HEMBB1000144	0.2
	HEMBB1000218	F-HEMBB1000218	0.07
10	HEMBB1000250	F-HEMBB1000250	0.26
	HEMBB1000258	F-HEMBB1000258	0.15
	HEMBB1000264	F-HEMBB1000264	0.08
	HEMBB1000272	F-HEMBB1000272	0.11
15	HEMBB1000274	F-HEMBB1000274	0.12
	HEMBB1000284	F-HEMBB1000284	0.1
	HEMBB1000307	F-HEMBB1000307	0.11
	HEMBB1000312	F-HEMBB1000312	0.07
20	HEMBB1000317	F-HEMBB1000317	0.27
	HEMBB1000318	F-HEMBB1000318	0.11
	HEMBB1000335	F-HEMBB1000335	0.15
	HEMBB1000336	F-HEMBB1000336	0.28
25	HEMBB1000337	F-HEMBB1000337	0.25
	HEMBB1000341	F-HEMBB1000341	0.24
	HEMBB1000343	F-HEMBB1000343	0.07
	HEMBB1000354	F-HEMBB1000354	0.15
30	HEMBB1000369	F-HEMBB1000369	0.08
	HEMBB1000374	F-HEMBB1000374	0.3
	HEMBB1000376	F-HEMBB1000376	0.12
	HEMBB1000399	F-HEMBB1000399	0.08
35	HEMBB1000402	F-HEMBB1000402	0.29
	HEMBB1000404	F-HEMBB1000404	0.29
	HEMBB1000420	F-HEMBB1000420	0.11
	HEMBB1000434	F-HEMBB1000434	0.05
40	HEMBB1000441	F-HEMBB1000441	0.12
	HEMBB1000455	F-HEMBB1000455	0.05
	HEMBB1000472	F-HEMBB1000472	0.05
	HEMBB1000480	F-HEMBB1000480	0.13
	HEMBB1000487	F-HEMBB1000487	0.09
45	HEMBB1000490	F-HEMBB1000490	0.06
	HEMBB1000491	F-HEMBB1000491	0.16
	HEMBB1000493	F-HEMBB1000493	0.15
	HEMBB1000518	F-HEMBB1000518	0.05
50	HEMBB1000523	F-HEMBB1000523	0.07
	HEMBB1000530	F-HEMBB1000530	0.14
	HEMBB1000554	F-HEMBB1000554	0.23
	HEMBB1000564	F-HEMBB1000564	0.09
55	HEMBB1000573	F-HEMBB1000573	0.1
	HEMBB1000575	F-HEMBB1000575	0.08

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	HEMBB1000586	F-HEMBB1000586	0.12
	HEMBB1000598	F-HEMBB1000598	0.12
	HEMBB1000637	F-HEMBB1000637	0.19
5	HEMBB1000638	F-HEMBB1000638	0.07
	HEMBB1000643	F-HEMBB1000643	0.07
	HEMBB1000649	F-HEMBB1000649	0.13
	HEMBB1000652	F-HEMBB1000652	0.2
10	HEMBB1000665	F-HEMBB1000665	0.07
	HEMBB1000684	F-HEMBB1000684	0.06
	HEMBB1000709	F-HEMBB1000709	0.09
	HEMBB1000726	F-HEMBB1000726	0.07
15	HEMBB1000738	F-HEMBB1000738	0.19
	HEMBB1000749	F-HEMBB1000749	0.14
	HEMBB1000770	F-HEMBB1000770	0.09
	HEMBB1000790	F-HEMBB1000790	0.23
20	HEMBB1000794	F-HEMBB1000794	0.09
	HEMBB1000821	F-HEMBB1000821	0.1
	HEMBB1000822	F-HEMBB1000822	0.18
	HEMBB1000827	F-HEMBB1000827	0.1
25	HEMBB1000831	F-HEMBB1000831	0.2
	HEMBB1000840	F-HEMBB1000840	0.09
	HEMBB1000876	F-HEMBB1000876	0.12
	HEMBB1000883	F-HEMBB1000883	0.13
30	HEMBB1000888	F-HEMBB1000888	0.1
	HEMBB1000890	F-HEMBB1000890	0.09
	HEMBB1000893	F-HEMBB1000893	0.1
	HEMBB1000910	F-HEMBB1000910	0.06
35	HEMBB1000913	F-HEMBB1000913	0.09
	HEMBB1000915	F-HEMBB1000915	0.12
	HEMBB1000917	F-HEMBB1000917	0.15
	HEMBB1000959	F-HEMBB1000959	0.08
40	HEMBB1000981	F-HEMBB1000981	0.09
	HEMBB1000996	F-HEMBB1000996	0.1
	HEMBB1001004	F-HEMBB1001004	0.08
	HEMBB1001008	F-HEMBB1001008	0.25
	HEMBB1001037	F-HEMBB1001037	0.14
45	HEMBB1001047	F-HEMBB1001047	0.14
	HEMBB1001051	F-HEMBB1001051	0.13
	HEMBB1001060	F-HEMBB1001060	0.16
	HEMBB1001063	F-HEMBB1001063	0.1
50	HEMBB1001102	F-HEMBB1001102	0.19
	HEMBB1001114	F-HEMBB1001114	0.08
	HEMBB1001119	F-HEMBB1001119	0.13
	HEMBB1001133	F-HEMBB1001133	0.06
55	HEMBB1001142	F-HEMBB1001142	0.17
	HEMBB1001177	F-HEMBB1001177	0.2

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	HEMBB1001208	F-HEMBB1001208	0.12
	HEMBB1001209	F-HEMBB1001209	0.11
	HEMBB1001218	F-HEMBB1001218	0.1
5	HEMBB1001221	F-HEMBB1001221	0.1
	HEMBB1001249	F-HEMBB1001249	0.12
	HEMBB1001253	F-HEMBB1001253	0.13
	HEMBB1001254	F-HEMBB1001254	0.13
10	HEMBB1001267	F-HEMBB1001267	0.09
	HEMBB1001271	F-HEMBB1001271	0.16
	HEMBB1001282	F-HEMBB1001282	0.14
	HEMBB1001302	F-HEMBB1001302	0.18
15	HEMBB1001304	F-HEMBB1001304	0.17
	HEMBB1001315	F-HEMBB1001315	0.18
	HEMBB1001317	F-HEMBB1001317	0.12
	HEMBB1001326	F-HEMBB1001326	0.09
20	HEMBB1001335	F-HEMBB1001335	0.08
	HEMBB1001337	F-HEMBB1001337	0.12
	HEMBB1001348	F-HEMBB1001348	0.11
	HEMBB1001356	F-HEMBB1001356	0.1
25	HEMBB1001366	F-HEMBB1001366	0.16
	HEMBB1001367	F-HEMBB1001367	0.11
	HEMBB1001380	F-HEMBB1001380	0.07
	HEMBB1001424	F-HEMBB1001424	0.05
30	HEMBB1001436	F-HEMBB1001436	0.14
	HEMBB1001443	F-HEMBB1001443	0.28
	HEMBB1001454	F-HEMBB1001454	
	HEMBB1001458	F-HEMBB1001458	0.11
35	HEMBB1001463	F-HEMBB1001463	0.1
	HEMBB1001464	F-HEMBB1001464	0.06
	HEMBB1001500	F-HEMBB1001500	0.11
	HEMBB1001521	F-HEMBB1001521	0.13
40	HEMBB1001527	F-HEMBB1001527	0.13
	HEMBB1001535	F-HEMBB1001535	0.11
	HEMBB1001536	F-HEMBB1001536	0.08
	HEMBB1001537	F-HEMBB1001537	0.11
	HEMBB1001555	F-HEMBB1001555	0.08
45	HEMBB1001565	F-HEMBB1001565	0.1
	HEMBB1001586	F-HEMBB1001586	0.06
	HEMBB1001588	F-HEMBB1001588	0.06
	HEMBB1001618	F-HEMBB1001618	0.09
50	HEMBB1001619	F-HEMBB1001619	0.12
	HEMBB1001630	F-HEMBB1001630	0.12
	HEMBB1001637	F-HEMBB1001637	0.08
	HEMBB1001641	F-HEMBB1001641	0.09
55	HEMBB1001704	F-HEMBB1001704	0.09
	HEMBB1001706	F-HEMBB1001706	0.11

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	HEMBB1001717	F-HEMBB1001717	0.09
	HEMBB1001735	F-HEMBB1001735	0.21
	HEMBB1001747	F-HEMBB1001747	0.07
5	HEMBB1001749	F-HEMBB1001749	0.13
	HEMBB1001753	F-HEMBB1001753	0.08
	HEMBB1001756	F-HEMBB1001756	0.11
	HEMBB1001762	F-HEMBB1001762	0.11
10	HEMBB1001797	F-HEMBB1001797	0.13
	HEMBB1001802	F-HEMBB1001802	0.06
	HEMBB1001836	F-HEMBB1001836	0.15
	HEMBB1001850	F-HEMBB1001850	0.06
15	HEMBB1001863	F-HEMBB1001863	0.09
	HEMBB1001867	F-HEMBB1001867	0.11
	HEMBB1001868	F-HEMBB1001868	0.24
	HEMBB1001875	F-HEMBB1001875	0.05
20	HEMBB1001880	F-HEMBB1001880	0.08
	HEMBB1001899	F-HEMBB1001899	0.16
	HEMBB1001911	F-HEMBB1001911	0.22
	HEMBB1001921	F-HEMBB1001921	0.07
25	HEMBB1001922	F-HEMBB1001922	0.11
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	HEMBB1001973	F-HEMBB1001973	0.09
35	HEMBB1001983	F-HEMBB1001983	0.1
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	HEMBB1001996	F-HEMBB1001996	0.19
	HEMBB1001997	F-HEMBB1001997	0.08
40	HEMBB1002002	F-HEMBB1002002	0.21
	HEMBB1002005	F-HEMBB1002005	0.18
	HEMBB1002009	F-HEMBB1002009	0.09
	HEMBB1002015	F-HEMBB1002015	0.26
45	HEMBB1002042	F-HEMBB1002042	0.11
	HEMBB1002043	F-HEMBB1002043	0.09
	HEMBB1002045	F-HEMBB1002045	0.26
	HEMBB1002049	F-HEMBB1002049	0.12
50	HEMBB1002069	F-HEMBB1002069	0.12
	HEMBB1002092	F-HEMBB1002092	0.16
	HEMBB1002094	F-HEMBB1002094	0.11
	HEMBB1002115	F-HEMBB1002115	0.09
	HEMBB1002139	F-HEMBB1002139	0.13
55	HEMBB1002189	F-HEMBB1002189	0.06
	HEMBB1002190	F-HEMBB1002190	0.18

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	HEMBB1002232	F-HEMBB1002232	0.09
	HEMBB1002247	F-HEMBB1002247	0.17
	HEMBB1002254	F-HEMBB1002254	0.05
5	HEMBB1002255	F-HEMBB1002255	0.11
	HEMBB1002266	F-HEMBB1002266	0.28
	HEMBB1002280	F-HEMBB1002280	0.07
	HEMBB1002306	F-HEMBB1002306	0.06
10	HEMBB1002364	F-HEMBB1002364	0.05
	HEMBB1002371	F-HEMBB1002371	0.12
	HEMBB1002381	F-HEMBB1002381	0.09
	HEMBB1002387	F-HEMBB1002387	0.17
15	HEMBB1002425	F-HEMBB1002425	0.08
	HEMBB1002453	F-HEMBB1002453	0.12
	HEMBB1002458	F-HEMBB1002458	0.09
	HEMBB1002477	F-HEMBB1002477	0.17
20	HEMBB1002509	F-HEMBB1002509	0.06
	HEMBB1002520	F-HEMBB1002520	0.08
	HEMBB1002522	F-HEMBB1002522	0.21
	HEMBB1002531	F-HEMBB1002531	0.1
25	HEMBB1002534	F-HEMBB1002534	0.09
	HEMBB1002556	F-HEMBB1002556	0.1
	HEMBB1002579	F-HEMBB1002579	0.13
	HEMBB1002582	F-HEMBB1002582	0.17
30	HEMBB1002590	F-HEMBB1002590	0.08
	HEMBB1002596	F-HEMBB1002596	0.15
	HEMBB1002601	F-HEMBB1002601	0.1
	HEMBB1002603	F-HEMBB1002603	0.12
35	HEMBB1002610	F-HEMBB1002610	0.1
	HEMBB1002613	F-HEMBB1002613	0.09
	HEMBB1002617	F-HEMBB1002617	0.12
	HEMBB1002623	F-HEMBB1002623	0.14
40	HEMBB1002635	F-HEMBB1002635	0.08
	HEMBB1002664	F-HEMBB1002664	0.06
	HEMBB1002677	F-HEMBB1002677	0.07
	HEMBB1002683	F-HEMBB1002683	0.06
	HEMBB1002686	F-HEMBB1002686	0.12
45	HEMBB1002699	F-HEMBB1002699	0.15
	HEMBB1002702	F-HEMBB1002702	0.16
	HEMBB1002712	F-HEMBB1002712	0.07
	MAMMA1000009	F-MAMMA1000009	0.11
50	MAMMA1000043	F-MAMMA1000043	0.19
	MAMMA1000045	F-MAMMA1000045	0.08
	MAMMA1000092	F-MAMMA1000092	0.11
	MAMMA1000103	F-MAMMA1000103	0.09
55	MAMMA1000117	F-MAMMA1000117	0.2
	MAMMA1000129	F-MAMMA1000129	0.17

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	MAMMA1000133	F-MAMMA1000133	0.1
	MAMMA1000134	F-MAMMA1000134	0.05
	MAMMA1000155	F-MAMMA1000155	0.12
5	MAMMA1000175	F-MAMMA1000175	0.07
	MAMMA1000198	F-MAMMA1000198	0.2
	MAMMA1000221	F-MAMMA1000221	0.1
	MAMMA1000227	F-MAMMA1000227	0.08
10	MAMMA1000241	F-MAMMA1000241	0.16
	MAMMA1000254	F-MAMMA1000254	0.08
	MAMMA1000264	F-MAMMA1000264	0.1
	MAMMA1000266	F-MAMMA1000266	0.18
15	MAMMA1000270	F-MAMMA1000270	0.1
	MAMMA1000287	F-MAMMA1000287	0.1
	MAMMA1000302	F-MAMMA1000302	0.07
	MAMMA1000307	F-MAMMA1000307	0.26
20	MAMMA1000331	F-MAMMA1000331	0.18
	MAMMA1000340	F-MAMMA1000340	0.2
	MAMMA1000348	F-MAMMA1000348	0.09
	MAMMA1000356	F-MAMMA1000356	0.15
25	MAMMA1000360	F-MAMMA1000360	0.09
	MAMMA1000385	F-MAMMA1000385	0.08
	MAMMA1000402	F-MAMMA1000402	0.11
	MAMMA1000413	F-MAMMA1000413	0.1
30	MAMMA1000414	F-MAMMA1000414	0.1
	MAMMA1000423	F-MAMMA1000423	0.06
	MAMMA1000424	F-MAMMA1000424	0.1
	MAMMA1000431	F-MAMMA1000431	0.28
35	MAMMA1000444	F-MAMMA1000444	0.07
	MAMMA1000446	F-MAMMA1000446	0.08
	MAMMA1000478	F-MAMMA1000478	0.1
	MAMMA1000483	F-MAMMA1000483	0.07
40	MAMMA1000500	F-MAMMA1000500	0.16
	MAMMA1000501	F-MAMMA1000501	0.05
	MAMMA1000516	F-MAMMA1000516	0.06
	MAMMA1000522	F-MAMMA1000522	0.21
45	MAMMA1000559	F-MAMMA1000559	0.12
	MAMMA1000565	F-MAMMA1000565	0.09
	MAMMA1000576	F-MAMMA1000576	0.14
	MAMMA1000585	F-MAMMA1000585	0.07
50	MAMMA1000594	F-MAMMA1000594	0.17
	MAMMA1000597	F-MAMMA1000597	0.1
	MAMMA1000605	F-MAMMA1000605	0.09
	MAMMA1000616	F-MAMMA1000616	0.08
	MAMMA1000621	F-MAMMA1000621	0.07
55	MAMMA1000643	F-MAMMA1000643	0.1
	MAMMA1000669	F-MAMMA1000669	0.11

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	MAMMA1000696	F-MAMMA1000696	0.08
	MAMMA1000707	F-MAMMA1000707	0.07
	MAMMA1000714	F-MAMMA1000714	0.18
5	MAMMA1000718	F-MAMMA1000718	0.06
	MAMMA1000720	F-MAMMA1000720	0.15
	MAMMA1000723	F-MAMMA1000723	0.14
	MAMMA1000732	F-MAMMA1000732	0.06
10	MAMMA1000733	F-MAMMA1000733	0.1
	MAMMA1000744	F-MAMMA1000744	0.15
	MAMMA1000752	F-MAMMA1000752	0.12
	MAMMA1000761	F-MAMMA1000761	0.24
15	MAMMA1000775	F-MAMMA1000775	0.24
	MAMMA1000778	F-MAMMA1000778	0.09
	MAMMA1000782	F-MAMMA1000782	0.1
	MAMMA1000798	F-MAMMA1000798	0.16
20	MAMMA1000802	F-MAMMA1000802	0.11
	MAMMA1000839	F-MAMMA1000839	0.09
	MAMMA1000845	F-MAMMA1000845	0.1
	MAMMA1000851	F-MAMMA1000851	0.08
25	MAMMA1000855	F-MAMMA1000855	0.23
	MAMMA1000862	F-MAMMA1000862	0.12
	MAMMA1000863	F-MAMMA1000863	0.16
	MAMMA1000867	F-MAMMA1000867	0.25
30	MAMMA1000876	F-MAMMA1000876	0.14
	MAMMA1000877	F-MAMMA1000877	0.07
	MAMMA1000880	F-MAMMA1000880	0.13
	MAMMA1000883	F-MAMMA1000883	0.3
35	MAMMA1000905	F-MAMMA1000905	0.08
	MAMMA1000931	F-MAMMA1000931	0.18
	MAMMA1000940	F-MAMMA1000940	0.21
	MAMMA1000941	F-MAMMA1000941	0.13
40	MAMMA1000942	F-MAMMA1000942	0.08
	MAMMA1000943	F-MAMMA1000943	0.09
	MAMMA1000957	F-MAMMA1000957	0.13
	MAMMA1000962	F-MAMMA1000962	0.06
	MAMMA1000975	F-MAMMA1000975	0.26
45	MAMMA1000987	F-MAMMA1000987	0.08
	MAMMA1000998	F-MAMMA1000998	0.08
	MAMMA1001003	F-MAMMA1001003	0.15
	MAMMA1001024	F-MAMMA1001024	0.08
50	MAMMA1001030	F-MAMMA1001030	0.2
	MAMMA1001035	F-MAMMA1001035	0.08
	MAMMA1001038	F-MAMMA1001038	0.15
	MAMMA1001050	F-MAMMA1001050	0.06
55	MAMMA1001067	F-MAMMA1001067	0.08
	MAMMA1001074	F-MAMMA1001074	0.09

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	MAMMA1001092	F-MAMMA1001092	0.05
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5	MAMMA1001145	F-MAMMA1001145	0.05
	MAMMA1001161	F-MAMMA1001161	0.11
	MAMMA1001162	F-MAMMA1001162	0.11
	MAMMA1001186	F-MAMMA1001186	0.09
10	MAMMA1001191	F-MAMMA1001191	0.08
	MAMMA1001203	F-MAMMA1001203	0.08
	MAMMA1001206	F-MAMMA1001206	0.09
	MAMMA1001220	F-MAMMA1001220	0.1
15	MAMMA1001243	F-MAMMA1001243	0.14
	MAMMA1001249	F-MAMMA1001249	0.13
	MAMMA1001256	F-MAMMA1001256	0.1
	MAMMA1001268	F-MAMMA1001268	0.26
20	MAMMA1001274	F-MAMMA1001274	0.13
	MAMMA1001280	F-MAMMA1001280	0.1
	MAMMA1001298	F-MAMMA1001298	0.07
	MAMMA1001322	F-MAMMA1001322	0.18
25	MAMMA1001324	F-MAMMA1001324	0.25
	MAMMA1001330	F-MAMMA1001330	0.13
	MAMMA1001341	F-MAMMA1001341	0.16
	MAMMA1001383	F-MAMMA1001383	0.05
30	MAMMA1001397	F-MAMMA1001397	0.22
	MAMMA1001408	F-MAMMA1001408	0.06
	MAMMA1001420	F-MAMMA1001420	0.1
	MAMMA1001435	F-MAMMA1001435	0.07
35	MAMMA1001442	F-MAMMA1001442	0.13
	MAMMA1001446	F-MAMMA1001446	0.08
	MAMMA1001452	F-MAMMA1001452	0.1
	MAMMA1001501	F-MAMMA1001501	0.12
40	MAMMA1001502	F-MAMMA1001502	0.09
	MAMMA1001547	F-MAMMA1001547	0.22
	MAMMA1001575	F-MAMMA1001575	0.08
	MAMMA1001590	F-MAMMA1001590	0.14
45	MAMMA1001606	F-MAMMA1001606	0.13
	MAMMA1001663	F-MAMMA1001663	0.11
	MAMMA1001670	F-MAMMA1001670	0.2
	MAMMA1001671	F-MAMMA1001671	0.13
	MAMMA1001679	F-MAMMA1001679	0.13
50	MAMMA1001683	F-MAMMA1001683	0.16
	MAMMA1001686	F-MAMMA1001686	0.09
	MAMMA1001711	F-MAMMA1001711	0.11
	MAMMA1001715	F-MAMMA1001715	0.11
55	MAMMA1001740	F-MAMMA1001740	0.1
	MAMMA1001745	F-MAMMA1001745	0.09

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5	MAMMA1001806	F-MAMMA1001806	0.06
	MAMMA1001815	F-MAMMA1001815	0.1
	MAMMA1001818	F-MAMMA1001818	0.1
	MAMMA1001820	F-MAMMA1001820	0.27
10	MAMMA1001836	F-MAMMA1001836	0.05
	MAMMA1001854	F-MAMMA1001854	0.17
	MAMMA1001878	F-MAMMA1001878	0.13
	MAMMA1001880	F-MAMMA1001880	0.15
15	MAMMA1001890	F-MAMMA1001890	0.05
	MAMMA1001907	F-MAMMA1001907	0.1
	MAMMA1001908	F-MAMMA1001908	0.3
	MAMMA1001931	F-MAMMA1001931	0.14
20	MAMMA1001963	F-MAMMA1001963	0.08
	MAMMA1001992	F-MAMMA1001992	0.12
	MAMMA1002032	F-MAMMA1002032	0.08
	MAMMA1002056	F-MAMMA1002056	0.09
25	MAMMA1002058	F-MAMMA1002058	0.16
	MAMMA1002078	F-MAMMA1002078	0.28
	MAMMA1002082	F-MAMMA1002082	0.08
	MAMMA1002084	F-MAMMA1002084	0.24
30	MAMMA1002093	F-MAMMA1002093	0.12
	MAMMA1002108	F-MAMMA1002108	0.05
	MAMMA1002118	F-MAMMA1002118	0.1
	MAMMA1002125	F-MAMMA1002125	0.09
35	MAMMA1002132	F-MAMMA1002132	0.11
	MAMMA1002140	F-MAMMA1002140	0.11
	MAMMA1002145	F-MAMMA1002145	0.11
	MAMMA1002155	F-MAMMA1002155	0.1
40	MAMMA1002158	F-MAMMA1002158	0.11
	MAMMA1002215	F-MAMMA1002215	0.05
	MAMMA1002230	F-MAMMA1002230	0.07
	MAMMA1002250	F-MAMMA1002250	0.2
	MAMMA1002267	F-MAMMA1002267	0.08
45	MAMMA1002282	F-MAMMA1002282	0.05
	MAMMA1002293	F-MAMMA1002293	0.09
	MAMMA1002298	F-MAMMA1002298	0.09
	MAMMA1002299	F-MAMMA1002299	0.16
50	MAMMA1002310	F-MAMMA1002310	0.16
	MAMMA1002311	F-MAMMA1002311	0.13
	MAMMA1002322	F-MAMMA1002322	0.07
	MAMMA1002332	F-MAMMA1002332	0.08
55	MAMMA1002339	F-MAMMA1002339	0.09
	MAMMA1002347	F-MAMMA1002347	0.06

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	MAMMA1002352	F-MAMMA1002352	0.08
	MAMMA1002359	F-MAMMA1002359	0.13
	MAMMA1002360	F-MAMMA1002360	0.17
5	MAMMA1002361	F-MAMMA1002361	0.13
	MAMMA1002392	F-MAMMA1002392	0.16
	MAMMA1002411	F-MAMMA1002411	0.28
	MAMMA1002417	F-MAMMA1002417	0.19
10	MAMMA1002428	F-MAMMA1002428	0.07
	MAMMA1002446	F-MAMMA1002446	0.17
	MAMMA1002475	F-MAMMA1002475	0.17
	MAMMA1002480	F-MAMMA1002480	0.07
15	MAMMA1002494	F-MAMMA1002494	0.17
	MAMMA1002498	F-MAMMA1002498	0.28
	MAMMA1002545	F-MAMMA1002545	0.12
	MAMMA1002556	F-MAMMA1002556	0.06
20	MAMMA1002566	F-MAMMA1002566	0.13
	MAMMA1002571	F-MAMMA1002571	0.29
	MAMMA1002573	F-MAMMA1002573	0.29
	MAMMA1002597	F-MAMMA1002597	0.1
25	MAMMA1002603	F-MAMMA1002603	0.1
	MAMMA1002612	F-MAMMA1002612	0.14
	MAMMA1002618	F-MAMMA1002618	0.11
	MAMMA1002622	F-MAMMA1002622	0.24
30	MAMMA1002623	F-MAMMA1002623	0.1
	MAMMA1002625	F-MAMMA1002625	0.11
	MAMMA1002629	F-MAMMA1002629	0.05
	MAMMA1002636	F-MAMMA1002636	0.12
35	MAMMA1002646	F-MAMMA1002646	0.05
	MAMMA1002662	F-MAMMA1002662	0.09
	MAMMA1002698	F-MAMMA1002698	0.08
	MAMMA1002701	F-MAMMA1002701	0.11
40	MAMMA1002708	F-MAMMA1002708	0.09
	MAMMA1002721	F-MAMMA1002721	0.06
	MAMMA1002727	F-MAMMA1002727	0.15
	MAMMA1002728	F-MAMMA1002728	0.12
45	MAMMA1002744	F-MAMMA1002744	0.08
	MAMMA1002746	F-MAMMA1002746	0.09
	MAMMA1002748	F-MAMMA1002748	0.1
	MAMMA1002754	F-MAMMA1002754	0.07
50	MAMMA1002758	F-MAMMA1002758	0.29
	MAMMA1002764	F-MAMMA1002764	0.2
	MAMMA1002765	F-MAMMA1002765	0.29
	MAMMA1002780	F-MAMMA1002780	0.12
	MAMMA1002820	F-MAMMA1002820	0.3
55	MAMMA1002830	F-MAMMA1002830	0.16
	MAMMA1002833	F-MAMMA1002833	0.14

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	MAMMA1002838	F-MAMMA1002838	0.09
	MAMMA1002844	F-MAMMA1002844	0.27
5	MAMMA1002858	F-MAMMA1002858	0.29
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	MAMMA1002880	F-MAMMA1002880	0.11
	MAMMA1002887	F-MAMMA1002887	0.09
10	MAMMA1002892	F-MAMMA1002892	0.17
	MAMMA1002908	F-MAMMA1002908	0.11
	MAMMA1002909	F-MAMMA1002909	0.22
	MAMMA1002930	F-MAMMA1002930	0.2
15	MAMMA1002941	F-MAMMA1002941	0.23
	MAMMA1002970	F-MAMMA1002970	0.06
	MAMMA1002972	F-MAMMA1002972	0.08
	MAMMA1002973	F-MAMMA1002973	0.1
20	MAMMA1002982	F-MAMMA1002982	0.1
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	MAMMA1003004	F-MAMMA1003004	0.14
	MAMMA1003007	F-MAMMA1003007	0.09
25	MAMMA1003019	F-MAMMA1003019	0.12
	MAMMA1003026	F-MAMMA1003026	0.26
	MAMMA1003031	F-MAMMA1003031	0.18
	MAMMA1003039	F-MAMMA1003039	0.09
30	MAMMA1003040	F-MAMMA1003040	0.07
	MAMMA1003055	F-MAMMA1003055	0.08
	MAMMA1003089	F-MAMMA1003089	0.14
	MAMMA1003140	F-MAMMA1003140	0.19
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	NT2RM4000085	F-NT2RM4000085	0.23
	NT2RM4000086	F-NT2RM4000086	0.28
	NT2RM4000200	F-NT2RM4000200	0.16
40	NT2RM4000244	F-NT2RM4000244	0.07
	NT2RM4000265	F-NT2RM4000265	0.18
	NT2RM4000327	F-NT2RM4000327	0.06
	NT2RM4000366	F-NT2RM4000366	0.28
45	NT2RM4000368	F-NT2RM4000368	0.11
	NT2RM4000414	F-NT2RM4000414	0.19
	NT2RM4000425	F-NT2RM4000425	0.22
	NT2RM4000532	F-NT2RM4000532	0.14
50	NT2RM4000779	F-NT2RM4000779	0.13
	NT2RM4000855	F-NT2RM4000855	0.13
	NT2RM4000979	F-NT2RM4000979	0.22
	NT2RM4001016	F-NT2RM4001016	0.2
55	NT2RM4001160	F-NT2RM4001160	0.1
	NT2RM4001313	F-NT2RM4001313	0.26

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	NT2RM4001414	F-NT2RM4001414	0.23
	NT2RM4001437	F-NT2RM4001437	0.12
	NT2RM4001519	F-NT2RM4001519	0.07
5	NT2RM4001557	F-NT2RM4001557	0.3
	NT2RM4001605	F-NT2RM4001605	0.22
	NT2RM4001754	F-NT2RM4001754	0.26
	NT2RM4001776	F-NT2RM4001776	0.18
10	NT2RM4001810	F-NT2RM4001810	0.22
	NT2RM4001856	F-NT2RM4001856	0.11
	NT2RM4001858	F-NT2RM4001858	0.14
	NT2RM4001930	F-NT2RM4001930	0.3
15	NT2RM4001953	F-NT2RM4001953	0.09
	NT2RM4001984	F-NT2RM4001984	0.09
	NT2RM4002067	F-NT2RM4002067	0.08
	NT2RM4002278	F-NT2RM4002278	0.07
20	NT2RM4002281	F-NT2RM4002281	0.07
	NT2RM4002287	F-NT2RM4002287	0.27
	NT2RM4002383	F-NT2RM4002383	0.08
	NT2RM4002390	F-NT2RM4002390	0.18
25	NT2RM4002438	F-NT2RM4002438	0.23
	NT2RM4002479	F-NT2RM4002479	0.27
	NT2RM4002499	F-NT2RM4002499	0.08
	NT2RM4002504	F-NT2RM4002504	0.08
30	NT2RM4002532	F-NT2RM4002532	0.15
	NT2RM4002567	F-NT2RM4002567	0.28
	NT2RP2000027	F-NT2RP2000027	0.07
	NT2RP2000076	F-NT2RP2000076	0.16
	NT2RP2000077	F-NT2RP2000077	0.2
35	NT2RP2000098	F-NT2RP2000098	0.23
	NT2RP2000108	F-NT2RP2000108	0.07
	NT2RP2000183	F-NT2RP2000183	0.12
	NT2RP2000257	F-NT2RP2000257	0.27
40	NT2RP2000258	F-NT2RP2000258	0.19
	NT2RP2000270	F-NT2RP2000270	0.06
	NT2RP2000289	F-NT2RP2000289	0.06
	NT2RP2000327	F-NT2RP2000327	0.08
45	NT2RP2000337	F-NT2RP2000337	0.14
	NT2RP2000420	F-NT2RP2000420	0.2
	NT2RP2000459	F-NT2RP2000459	0.12
	NT2RP2000498	F-NT2RP2000498	0.05
50	NT2RP2000523	F-NT2RP2000523	0.14
	NT2RP2000603	F-NT2RP2000603	0.22
	NT2RP2000644	F-NT2RP2000644	0.05
	NT2RP2000678	F-NT2RP2000678	0.11
	NT2RP2000715	F-NT2RP2000715	0.21
55	NT2RP2000731	F-NT2RP2000731	0.09

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	NT2RP2000758	F-NT2RP2000758	0.2
	NT2RP2000842	F-NT2RP2000842	0.14
	NT2RP2000970	F-NT2RP2000970	0.12
5	NT2RP2000987	F-NT2RP2000987	0.07
	NT2RP2001149	F-NT2RP2001149	0.08
	NT2RP2001196	F-NT2RP2001196	0.27
	NT2RP2001226	F-NT2RP2001226	0.18
10	NT2RP2001277	F-NT2RP2001277	0.09
	NT2RP2001290	F-NT2RP2001290	0.1
	NT2RP2001295	F-NT2RP2001295	0.13
	NT2RP2001312	F-NT2RP2001312	0.15
15	NT2RP2001347	F-NT2RP2001347	0.11
	NT2RP2001423	F-NT2RP2001423	0.06
	NT2RP2001445	F-NT2RP2001445	0.11
	NT2RP2001449	F-NT2RP2001449	0.15
20	NT2RP2001467	F-NT2RP2001467	0.21
	NT2RP2001506	F-NT2RP2001506	0.06
	NT2RP2001526	F-NT2RP2001526	0.1
	NT2RP2001569	F-NT2RP2001569	0.09
25	NT2RP2001663	F-NT2RP2001663	0.08
	NT2RP2001677	F-NT2RP2001677	0.14
	NT2RP2001678	F-NT2RP2001678	0.17
	NT2RP2001699	F-NT2RP2001699	0.05
30	NT2RP2001720	F-NT2RP2001720	0.08
	NT2RP2001740	F-NT2RP2001740	0.23
	NT2RP2001762	F-NT2RP2001762	0.11
	NT2RP2001813	F-NT2RP2001813	0.19
35	NT2RP2001869	F-NT2RP2001869	0.22
	NT2RP2001926	F-NT2RP2001926	0.07
	NT2RP2001936	F-NT2RP2001936	0.08
	NT2RP2001943	F-NT2RP2001943	0.27
40	NT2RP2002032	F-NT2RP2002032	0.23
	NT2RP2002041	F-NT2RP2002041	0.1
	NT2RP2002047	F-NT2RP2002047	0.12
	NT2RP2002066	F-NT2RP2002066	0.25
	NT2RP2002070	F-NT2RP2002070	0.07
45	NT2RP2002105	F-NT2RP2002105	0.13
	NT2RP2002124	F-NT2RP2002124	0.13
	NT2RP2002137	F-NT2RP2002137	0.07
	NT2RP2002172	F-NT2RP2002172	0.21
50	NT2RP2002192	F-NT2RP2002192	0.05
	NT2RP2002219	F-NT2RP2002219	0.13
	NT2RP2002256	F-NT2RP2002256	0.17
	NT2RP2002259	F-NT2RP2002259	0.28
55	NT2RP2002316	F-NT2RP2002316	0.15
	NT2RP2002394	F-NT2RP2002394	0.16

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	NT2RP2002439	F-NT2RP2002439	0.07
	NT2RP2002457	F-NT2RP2002457	0.11
	NT2RP2002475	F-NT2RP2002475	0.14
5	NT2RP2002504	F-NT2RP2002504	0.21
	NT2RP2002546	F-NT2RP2002546	0.17
	NT2RP2002591	F-NT2RP2002591	0.15
	NT2RP2002606	F-NT2RP2002606	0.11
10	NT2RP2002643	F-NT2RP2002643	0.26
	NT2RP2002727	F-NT2RP2002727	0.26
	NT2RP2002736	F-NT2RP2002736	0.12
	NT2RP2002740	F-NT2RP2002740	0.16
15	NT2RP2002741	F-NT2RP2002741	0.11
	NT2RP2002750	F-NT2RP2002750	0.14
	NT2RP2002752	F-NT2RP2002752	0.1
	NT2RP2002753	F-NT2RP2002753	0.09
20	NT2RP2002778	F-NT2RP2002778	0.13
	NT2RP2002839	F-NT2RP2002839	
	NT2RP2002857	F-NT2RP2002857	0.21
	NT2RP2002987	F-NT2RP2002987	0.08
25	NT2RP2003000	F-NT2RP2003000	0.24
	NT2RP2003073	F-NT2RP2003073	0.08
	NT2RP2003129	F-NT2RP2003129	0.07
	NT2RP2003161	F-NT2RP2003161	0.05
30	NT2RP2003164	F-NT2RP2003164	0.09
	NT2RP2003206	F-NT2RP2003206	0.22
	NT2RP2003230	F-NT2RP2003230	0.08
	NT2RP2003237	F-NT2RP2003237	0.24
	NT2RP2003339	F-NT2RP2003339	0.1
35	NT2RP2003394	F-NT2RP2003394	0.07
	NT2RP2003456	F-NT2RP2003456	0.08
	NT2RP2003499	F-NT2RP2003499	0.08
40	NT2RP2003517	F-NT2RP2003517	0.29
	NT2RP2003522	F-NT2RP2003522	0.22
	NT2RP2003559	F-NT2RP2003559	0.12
	NT2RP2003668	F-NT2RP2003668	0.08
	NT2RP2003704	F-NT2RP2003704	0.09
45	NT2RP2003706	F-NT2RP2003706	0.28
	NT2RP2003727	F-NT2RP2003727	0.17
	NT2RP2003770	F-NT2RP2003770	0.09
	NT2RP2003859	F-NT2RP2003859	0.18
50	NT2RP2003871	F-NT2RP2003871	0.23
	NT2RP2003885	F-NT2RP2003885	0.24
	NT2RP2003912	F-NT2RP2003912	0.26
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	NT2RP2003988	F-NT2RP2003988	0.09
55	NT2RP2004014	F-NT2RP2004014	0.07

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	NT2RP2004142	F-NT2RP2004142	0.14
	NT2RP2004170	F-NT2RP2004170	0.09
	NT2RP2004172	F-NT2RP2004172	0.15
5	NT2RP2004207	F-NT2RP2004207	0.11
	NT2RP2004232	F-NT2RP2004232	0.17
	NT2RP2004270	F-NT2RP2004270	0.29
	NT2RP2004300	F-NT2RP2004300	0.11
10	NT2RP2004321	F-NT2RP2004321	0.13
	NT2RP2004339	F-NT2RP2004339	0.14
	NT2RP2004347	F-NT2RP2004347	0.14
	NT2RP2004396	F-NT2RP2004396	0.29
15	NT2RP2004400	F-NT2RP2004400	0.06
	NT2RP2004412	F-NT2RP2004412	0.24
	NT2RP2004425	F-NT2RP2004425	0.13
	NT2RP2004490	F-NT2RP2004490	0.13
20	NT2RP2004512	F-NT2RP2004512	0.1
	NT2RP2004523	F-NT2RP2004523	0.15
	NT2RP2004580	F-NT2RP2004580	0.12
	NT2RP2004587	F-NT2RP2004587	0.08
25	NT2RP2004675	F-NT2RP2004675	0.14
	NT2RP2004681	F-NT2RP2004681	0.17
	NT2RP2004709	F-NT2RP2004709	0.08
	NT2RP2004736	F-NT2RP2004736	0.13
30	NT2RP2004767	F-NT2RP2004767	0.21
	NT2RP2004775	F-NT2RP2004775	0.17
	NT2RP2004961	F-NT2RP2004961	0.21
	NT2RP2004962	F-NT2RP2004962	0.24
35	NT2RP2004967	F-NT2RP2004967	0.05
	NT2RP2004982	F-NT2RP2004982	0.11
	NT2RP2005020	F-NT2RP2005020	0.16
	NT2RP2005031	F-NT2RP2005031	0.07
	NT2RP2005108	F-NT2RP2005108	0.11
40	NT2RP2005254	F-NT2RP2005254	0.16
	NT2RP2005289	F-NT2RP2005289	0.22
	NT2RP2005293	F-NT2RP2005293	0.08
	NT2RP2005325	F-NT2RP2005325	
45	NT2RP2005336	F-NT2RP2005336	0.27
	NT2RP2005344	F-NT2RP2005344	0.24
	NT2RP2005354	F-NT2RP2005354	0.08
	NT2RP2005360	F-NT2RP2005360	0.12
50	NT2RP2005407	F-NT2RP2005407	0.28
	NT2RP2005476	F-NT2RP2005476	0.14
	NT2RP2005491	F-NT2RP2005491	0.18
	NT2RP2005501	F-NT2RP2005501	0.1
55	NT2RP2005531	F-NT2RP2005531	0.29
	NT2RP2005581	F-NT2RP2005581	0.07

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	NT2RP2005645	F-NT2RP2005645	0.13
	NT2RP2005651	F-NT2RP2005651	0.06
	NT2RP2005694	F-NT2RP2005694	0.3
5	NT2RP2005701	F-NT2RP2005701	0.11
	NT2RP2005719	F-NT2RP2005719	0.06
	NT2RP2005726	F-NT2RP2005726	0.29
	NT2RP2005741	F-NT2RP2005741	0.22
10	NT2RP2005753	F-NT2RP2005753	0.16
	NT2RP2005815	F-NT2RP2005815	0.18
	NT2RP2005841	F-NT2RP2005841	0.05
	NT2RP2005857	F-NT2RP2005857	0.28
15	NT2RP2005908	F-NT2RP2005908	0.05
	NT2RP2005942	F-NT2RP2005942	0.26
	NT2RP2005980	F-NT2RP2005980	0.1
	NT2RP2006098	F-NT2RP2006098	0.06
20	NT2RP2006103	F-NT2RP2006103	0.07
	NT2RP2006166	F-NT2RP2006166	0.27
	NT2RP2006184	F-NT2RP2006184	0.23
	NT2RP2006258	F-NT2RP2006258	0.12
25	NT2RP2006261	F-NT2RP2006261	0.16
	NT2RP2006320	F-NT2RP2006320	0.16
	NT2RP2006321	F-NT2RP2006321	0.15
	NT2RP2006323	F-NT2RP2006323	
30	NT2RP2006393	F-NT2RP2006393	0.07
	NT2RP2006454	F-NT2RP2006454	0.11
	NT2RP2006467	F-NT2RP2006467	0.24
	NT2RP2006534	F-NT2RP2006534	0.14
	NT2RP2006554	F-NT2RP2006554	0.16
35	NT2RP2006598	F-NT2RP2006598	0.08
	NT2RP3000055	F-NT2RP3000055	0.14
	NT2RP3000109	F-NT2RP3000109	0.18
	NT2RP3000186	F-NT2RP3000186	0.06
40	NT2RP3000233	F-NT2RP3000233	0.29
	NT2RP3000235	F-NT2RP3000235	0.09
	NT2RP3000247	F-NT2RP3000247	0.19
	NT2RP3000341	F-NT2RP3000341	0.16
45	NT2RP3000418	F-NT2RP3000418	0.15
	NT2RP3000433	F-NT2RP3000433	0.11
	NT2RP3000441	F-NT2RP3000441	0.2
	NT2RP3000449	F-NT2RP3000449	0.16
50	NT2RP3000451	F-NT2RP3000451	0.14
	NT2RP3000512	F-NT2RP3000512	0.08
	NT2RP3000542	F-NT2RP3000542	0.1
	NT2RP3000561	F-NT2RP3000561	0.1
	NT2RP3000578	F-NT2RP3000578	0.3
55	NT2RP3000582	F-NT2RP3000582	0.08

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	NT2RP3000584	F-NT2RP3000584	0.07
	NT2RP3000622	F-NT2RP3000622	0.17
	NT2RP3000628	F-NT2RP3000628	0.08
5	NT2RP3000685	F-NT2RP3000685	0.17
	NT2RP3000736	F-NT2RP3000736	0.26
	NT2RP3000742	F-NT2RP3000742	0.22
	NT2RP3000815	F-NT2RP3000815	0.06
10	NT2RP3000865	F-NT2RP3000865	0.13
	NT2RP3000875	F-NT2RP3000875	0.16
	NT2RP3000904	F-NT2RP3000904	0.13
	NT2RP3001007	F-NT2RP3001007	0.1
15	NT2RP3001115	F-NT2RP3001115	0.1
	NT2RP3001232	F-NT2RP3001232	0.09
	NT2RP3001245	F-NT2RP3001245	0.09
	NT2RP3001281	F-NT2RP3001281	0.29
20	NT2RP3001318	F-NT2RP3001318	0.12
	NT2RP3001339	F-NT2RP3001339	0.27
	NT2RP3001340	F-NT2RP3001340	0.11
	NT2RP3001374	F-NT2RP3001374	0.21
25	NT2RP3001383	F-NT2RP3001383	0.09
	NT2RP3001432	F-NT2RP3001432	0.29
	NT2RP3001459	F-NT2RP3001459	0.16
	NT2RP3001527	F-NT2RP3001527	0.3
30	NT2RP3001580	F-NT2RP3001580	0.23
	NT2RP3001589	F-NT2RP3001589	0.12
	NT2RP3001607	F-NT2RP3001607	0.12
	NT2RP3001634	F-NT2RP3001634	0.15
35	NT2RP3001752	F-NT2RP3001752	0.09
	NT2RP3001782	F-NT2RP3001782	0.21
	NT2RP3001898	F-NT2RP3001898	0.07
	NT2RP3001926	F-NT2RP3001926	0.05
	NT2RP3001989	F-NT2RP3001989	0.14
40	NT2RP3002002	F-NT2RP3002002	0.18
	NT2RP3002004	F-NT2RP3002004	0.11
	NT2RP3002056	F-NT2RP3002056	0.16
	NT2RP3002057	F-NT2RP3002057	0.08
45	NT2RP3002166	F-NT2RP3002166	0.15
	NT2RP3002173	F-NT2RP3002173	0.28
	NT2RP3002352	F-NT2RP3002352	0.19
	NT2RP3002687	F-NT2RP3002687	0.12
50	NT2RP3002713	F-NT2RP3002713	0.1
	NT2RP3002770	F-NT2RP3002770	0.23
	NT2RP3002799	F-NT2RP3002799	0.17
	NT2RP3002810	F-NT2RP3002810	0.2
55	NT2RP3002955	F-NT2RP3002955	0.17
	NT2RP3002978	F-NT2RP3002978	0.06

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	NT2RP3003032	F-NT2RP3003032	0. 1
	NT2RP3003059	F-NT2RP3003059	0. 11
	NT2RP3003121	F-NT2RP3003121	0. 23
5	NT2RP3003133	F-NT2RP3003133	0. 21
	NT2RP3003138	F-NT2RP3003138	0. 29
	NT2RP3003264	F-NT2RP3003264	0. 15
	NT2RP3003346	F-NT2RP3003346	0. 16
10	NT2RP3003384	F-NT2RP3003384	0. 12
	NT2RP3003403	F-NT2RP3003403	0. 26
	NT2RP3003433	F-NT2RP3003433	0. 22
	NT2RP3003464	F-NT2RP3003464	0. 28
15	NT2RP3003500	F-NT2RP3003500	0. 2
	NT2RP3003572	F-NT2RP3003572	0. 29
	NT2RP3003576	F-NT2RP3003576	0. 16
	NT2RP3003625	F-NT2RP3003625	0. 29
20	NT2RP3003665	F-NT2RP3003665	0. 15
	NT2RP3003746	F-NT2RP3003746	0. 07
	NT2RP3003799	F-NT2RP3003799	0. 13
	NT2RP3003800	F-NT2RP3003800	0. 28
25	NT2RP3003819	F-NT2RP3003819	0. 19
	NT2RP3003828	F-NT2RP3003828	0. 12
	NT2RP3003842	F-NT2RP3003842	0. 11
	NT2RP3003989	F-NT2RP3003989	0. 1
30	NT2RP3004016	F-NT2RP3004016	0. 09
	NT2RP3004070	F-NT2RP3004070	0. 11
	NT2RP3004095	F-NT2RP3004095	0. 1
	NT2RP3004110	F-NT2RP3004110	0. 07
35	NT2RP3004145	F-NT2RP3004145	0. 15
	NT2RP3004148	F-NT2RP3004148	0. 14
	NT2RP3004215	F-NT2RP3004215	0. 16
	NT2RP3004334	F-NT2RP3004334	0. 1
40	NT2RP3004349	F-NT2RP3004349	0. 09
	NT2RP3004399	F-NT2RP3004399	0. 16
	NT2RP3004470	F-NT2RP3004470	0. 23
	NT2RP3004475	F-NT2RP3004475	0. 26
	NT2RP3004503	F-NT2RP3004503	0. 12
45	NT2RP3004527	F-NT2RP3004527	0. 06
	NT2RP4000023	F-NT2RP4000023	0. 13
	NT2RP4000035	F-NT2RP4000035	0. 17
	NT2RP4000049	F-NT2RP4000049	0. 1
50	NT2RP4000078	F-NT2RP4000078	0. 28
	NT2RP4000102	F-NT2RP4000102	0. 15
	NT2RP4000167	F-NT2RP4000167	0. 19
	NT2RP4000214	F-NT2RP4000214	0. 12
	NT2RP4000218	F-NT2RP4000218	0. 17
55	NT2RP4000321	F-NT2RP4000321	0. 18

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	NT2RP4000424	F-NT2RP4000424	0.22
	NT2RP4000515	F-NT2RP4000515	0.13
5	NT2RP4000517	F-NT2RP4000517	0.1
	NT2RP4000519	F-NT2RP4000519	0.26
	NT2RP4000915	F-NT2RP4000915	0.19
	NT2RP4000996	F-NT2RP4000996	0.05
10	NT2RP4001407	F-NT2RP4001407	0.2
	NT2RP4001889	F-NT2RP4001889	0.09
	NT2RP4002075	F-NT2RP4002075	0.19
	NT2RP4002905	F-NT2RP4002905	0.15
15	OVARC1000017	F-OVARC1000017	0.12
	OVARC1000058	F-OVARC1000058	0.2
	OVARC1000068	F-OVARC1000068	0.14
	OVARC1000071	F-OVARC1000071	0.15
	OVARC1000085	F-OVARC1000085	0.16
20	OVARC1000092	F-OVARC1000092	0.26
	OVARC1000133	F-OVARC1000133	0.14
	OVARC1000145	F-OVARC1000145	0.15
	OVARC1000191	F-OVARC1000191	0.07
25	OVARC1000198	F-OVARC1000198	0.23
	OVARC1000240	F-OVARC1000240	0.11
	OVARC1000302	F-OVARC1000302	0.08
	OVARC1000414	F-OVARC1000414	0.12
30	OVARC1000427	F-OVARC1000427	0.1
	OVARC1000431	F-OVARC1000431	0.06
	OVARC1000486	F-OVARC1000486	0.08
	OVARC1000496	F-OVARC1000496	0.13
35	OVARC1000526	F-OVARC1000526	0.09
	OVARC1000533	F-OVARC1000533	0.11
	OVARC1000543	F-OVARC1000543	0.2
	OVARC1000573	F-OVARC1000573	0.09
40	OVARC1000578	F-OVARC1000578	0.13
	OVARC1000678	F-OVARC1000678	0.17
	OVARC1000679	F-OVARC1000679	0.23
	OVARC1000700	F-OVARC1000700	0.28
	OVARC1000769	F-OVARC1000769	0.05
45	OVARC1000802	F-OVARC1000802	0.06
	OVARC1000891	F-OVARC1000891	0.08
	OVARC1000897	F-OVARC1000897	0.11
	OVARC1000936	F-OVARC1000936	0.14
50	OVARC1000937	F-OVARC1000937	0.29
	OVARC1000948	F-OVARC1000948	0.14
	OVARC1000960	F-OVARC1000960	0.07
	OVARC1000971	F-OVARC1000971	0.11
55	OVARC1001000	F-OVARC1001000	0.06
	OVARC1001011	F-OVARC1001011	0.15

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	OVARC1001051	F-OVARC1001051	0.16
	OVARC1001062	F-OVARC1001062	0.09
	OVARC1001072	F-OVARC1001072	0.11
5	OVARC1001085	F-OVARC1001085	0.12
	OVARC1001117	F-OVARC1001117	0.21
	OVARC1001118	F-OVARC1001118	0.08
	OVARC1001129	F-OVARC1001129	0.28
10	OVARC1001169	F-OVARC1001169	0.12
	OVARC1001240	F-OVARC1001240	0.09
	OVARC1001261	F-OVARC1001261	0.1
	OVARC1001268	F-OVARC1001268	0.05
15	OVARC1001282	F-OVARC1001282	0.09
	OVARC1001330	F-OVARC1001330	0.08
	OVARC1001339	F-OVARC1001339	0.15
	OVARC1001342	F-OVARC1001342	0.16
20	OVARC1001357	F-OVARC1001357	0.06
	OVARC1001442	F-OVARC1001442	0.15
	OVARC1001480	F-OVARC1001480	0.23
	OVARC1001542	F-OVARC1001542	0.13
25	OVARC1001547	F-OVARC1001547	0.12
	OVARC1001600	F-OVARC1001600	0.13
	OVARC1001615	F-OVARC1001615	0.11
	OVARC1001668	F-OVARC1001668	0.05
	OVARC1001726	F-OVARC1001726	0.18
30	OVARC1001745	F-OVARC1001745	0.22
	OVARC1001795	F-OVARC1001795	0.28
	OVARC1001805	F-OVARC1001805	0.16
	OVARC1001812	F-OVARC1001812	0.05
35	OVARC1001813	F-OVARC1001813	0.11
	OVARC1001846	F-OVARC1001846	0.13
	OVARC1001883	F-OVARC1001883	0.05
	OVARC1001900	F-OVARC1001900	0.28
40	OVARC1001901	F-OVARC1001901	0.09
	OVARC1001911	F-OVARC1001911	0.06
	OVARC1001928	F-OVARC1001928	0.1
	OVARC1001989	F-OVARC1001989	0.07
45	OVARC1002044	F-OVARC1002044	0.06
	OVARC1002066	F-OVARC1002066	0.08
	OVARC1002143	F-OVARC1002143	0.27
	PLACE1000031	F-PLACE1000031	0.09
50	PLACE1000040	F-PLACE1000040	0.15
	PLACE1000078	F-PLACE1000078	0.12
	PLACE1000094	F-PLACE1000094	0.16
	PLACE1000214	F-PLACE1000214	0.15
	PLACE1000292	F-PLACE1000292	0.05
55	PLACE1000332	F-PLACE1000332	0.1

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	PLACE1000421	F-PLACE1000421	0.14
	PLACE1000424	F-PLACE1000424	0.08
	PLACE1000481	F-PLACE1000481	0.12
5	PLACE1000540	F-PLACE1000540	0.11
	PLACE1000583	F-PLACE1000583	0.1
	PLACE1000599	F-PLACE1000599	0.22
	PLACE1000749	F-PLACE1000749	0.2
10	PLACE1000841	F-PLACE1000841	0.09
	PLACE1000931	F-PLACE1000931	0.22
	PLACE1000979	F-PLACE1000979	0.16
	PLACE1001007	F-PLACE1001007	0.19
15	PLACE1001015	F-PLACE1001015	0.25
	PLACE1001076	F-PLACE1001076	0.08
	PLACE1001088	F-PLACE1001088	0.18
	PLACE1001118	F-PLACE1001118	0.24
20	PLACE1001136	F-PLACE1001136	0.12
	PLACE1001272	F-PLACE1001272	0.07
	PLACE1001279	F-PLACE1001279	0.08
	PLACE1001323	F-PLACE1001323	0.18
25	PLACE1001377	F-PLACE1001377	0.16
	PLACE1001384	F-PLACE1001384	0.06
	PLACE1001395	F-PLACE1001395	0.08
	PLACE1001414	F-PLACE1001414	0.11
30	PLACE1001440	F-PLACE1001440	0.14
	PLACE1001468	F-PLACE1001468	0.05
	PLACE1001502	F-PLACE1001502	0.06
	PLACE1001517	F-PLACE1001517	0.09
35	PLACE1001534	F-PLACE1001534	0.08
	PLACE1001603	F-PLACE1001603	0.08
	PLACE1001611	F-PLACE1001611	0.25
	PLACE1001640	F-PLACE1001640	0.09
	PLACE1001672	F-PLACE1001672	0.11
40	PLACE1001691	F-PLACE1001691	0.11
	PLACE1001705	F-PLACE1001705	0.1
	PLACE1001716	F-PLACE1001716	0.15
	PLACE1001720	F-PLACE1001720	0.18
45	PLACE1001745	F-PLACE1001745	0.09
	PLACE1001746	F-PLACE1001746	0.12
	PLACE1001748	F-PLACE1001748	0.08
	PLACE1001756	F-PLACE1001756	0.17
50	PLACE1001799	F-PLACE1001799	0.14
	PLACE1001821	F-PLACE1001821	0.09
	PLACE1001845	F-PLACE1001845	0.08
	PLACE1001897	F-PLACE1001897	0.15
55	PLACE1002052	F-PLACE1002052	0.13
	PLACE1002066	F-PLACE1002066	0.07

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	PLACE1002150	F-PLACE1002150	0.08
	PLACE1002157	F-PLACE1002157	0.15
	PLACE1002205	F-PLACE1002205	0.13
5	PLACE1002227	F-PLACE1002227	0.12
	PLACE1002256	F-PLACE1002256	0.11
	PLACE1002259	F-PLACE1002259	0.09
	PLACE1002319	F-PLACE1002319	0.27
10	PLACE1002399	F-PLACE1002399	0.08
	PLACE1002477	F-PLACE1002477	0.17
	PLACE1002493	F-PLACE1002493	0.09
	PLACE1002500	F-PLACE1002500	0.25
15	PLACE1002514	F-PLACE1002514	0.06
	PLACE1002537	F-PLACE1002537	0.17
	PLACE1002578	F-PLACE1002578	0.11
	PLACE1002583	F-PLACE1002583	0.25
20	PLACE1002591	F-PLACE1002591	0.28
	PLACE1002598	F-PLACE1002598	0.29
	PLACE1002604	F-PLACE1002604	0.15
	PLACE1002768	F-PLACE1002768	0.11
25	PLACE1002772	F-PLACE1002772	0.15
	PLACE1002782	F-PLACE1002782	0.16
	PLACE1002853	F-PLACE1002853	0.16
	PLACE1002881	F-PLACE1002881	0.09
30	PLACE1002962	F-PLACE1002962	0.13
	PLACE1002968	F-PLACE1002968	0.23
	PLACE1003153	F-PLACE1003153	0.07
	PLACE1003205	F-PLACE1003205	0.2
35	PLACE1003238	F-PLACE1003238	0.22
	PLACE1003258	F-PLACE1003258	0.17
	PLACE1003343	F-PLACE1003343	0.07
	PLACE1003361	F-PLACE1003361	0.19
	PLACE1003373	F-PLACE1003373	0.08
40	PLACE1003375	F-PLACE1003375	0.26
	PLACE1003401	F-PLACE1003401	0.11
	PLACE1003420	F-PLACE1003420	0.22
	PLACE1003478	F-PLACE1003478	0.14
45	PLACE1003516	F-PLACE1003516	0.17
	PLACE1003519	F-PLACE1003519	0.14
	PLACE1003521	F-PLACE1003521	0.17
	PLACE1003528	F-PLACE1003528	0.16
50	PLACE1003566	F-PLACE1003566	0.16
	PLACE1003575	F-PLACE1003575	0.06
	PLACE1003583	F-PLACE1003583	0.08
	PLACE1003584	F-PLACE1003584	0.1
	PLACE1003593	F-PLACE1003593	0.15
55	PLACE1003618	F-PLACE1003618	0.25

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	PLACE1003638	F-PLACE1003638	0.06
	PLACE1003760	F-PLACE1003760	0.12
	PLACE1003768	F-PLACE1003768	0.13
5	PLACE1003833	F-PLACE1003833	0.06
	PLACE1003850	F-PLACE1003850	0.07
	PLACE1003858	F-PLACE1003858	0.07
	PLACE1003864	F-PLACE1003864	0.12
10	PLACE1003900	F-PLACE1003900	0.11
	PLACE1003932	F-PLACE1003932	0.05
	PLACE1004118	F-PLACE1004118	0.3
	PLACE1004242	F-PLACE1004242	0.05
15	PLACE1004256	F-PLACE1004256	0.24
	PLACE1004257	F-PLACE1004257	0.06
	PLACE1004274	F-PLACE1004274	0.25
	PLACE1004284	F-PLACE1004284	0.13
20	PLACE1004336	F-PLACE1004336	0.27
	PLACE1004384	F-PLACE1004384	0.17
	PLACE1004425	F-PLACE1004425	0.12
	PLACE1004467	F-PLACE1004467	0.2
25	PLACE1004471	F-PLACE1004471	0.12
	PLACE1004491	F-PLACE1004491	0.08
	PLACE1004506	F-PLACE1004506	
	PLACE1004518	F-PLACE1004518	0.14
30	PLACE1004658	F-PLACE1004658	0.05
	PLACE1004681	F-PLACE1004681	0.13
	PLACE1004693	F-PLACE1004693	0.11
	PLACE1004716	F-PLACE1004716	0.12
	PLACE1004773	F-PLACE1004773	0.17
35	PLACE1004793	F-PLACE1004793	0.21
	PLACE1004813	F-PLACE1004813	0.11
	PLACE1004815	F-PLACE1004815	0.14
	PLACE1004827	F-PLACE1004827	0.15
40	PLACE1004836	F-PLACE1004836	0.25
	PLACE1004838	F-PLACE1004838	0.16
	PLACE1004840	F-PLACE1004840	0.06
	PLACE1004900	F-PLACE1004900	0.08
45	PLACE1004913	F-PLACE1004913	0.12
	PLACE1004934	F-PLACE1004934	0.17
	PLACE1004972	F-PLACE1004972	0.07
	PLACE1004979	F-PLACE1004979	0.24
	PLACE1004985	F-PLACE1004985	0.05
50	PLACE1005052	F-PLACE1005052	0.17
	PLACE1005077	F-PLACE1005077	0.1
	PLACE1005085	F-PLACE1005085	0.13
	PLACE1005086	F-PLACE1005086	0.13
55	PLACE1005108	F-PLACE1005108	0.28

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	PLACE1005111	F-PLACE1005111	0.15
	PLACE1005128	F-PLACE1005128	0.12
	PLACE1005146	F-PLACE1005146	0.07
5	PLACE1005162	F-PLACE1005162	0.13
	PLACE1005176	F-PLACE1005176	0.16
	PLACE1005409	F-PLACE1005409	0.09
	PLACE1005453	F-PLACE1005453	0.1
10	PLACE1005467	F-PLACE1005467	0.28
	PLACE1005471	F-PLACE1005471	0.06
	PLACE1005477	F-PLACE1005477	0.12
	PLACE1005502	F-PLACE1005502	0.1
15	PLACE1005526	F-PLACE1005526	
	PLACE1005528	F-PLACE1005528	0.07
	PLACE1005574	F-PLACE1005574	0.06
	PLACE1005584	F-PLACE1005584	0.24
20	PLACE1005611	F-PLACE1005611	0.18
	PLACE1005639	F-PLACE1005639	0.09
	PLACE1005666	F-PLACE1005666	0.07
	PLACE1005730	F-PLACE1005730	0.2
25	PLACE1005802	F-PLACE1005802	0.1
	PLACE1005845	F-PLACE1005845	0.09
	PLACE1005850	F-PLACE1005850	0.22
	PLACE1005884	F-PLACE1005884	0.08
30	PLACE1005898	F-PLACE1005898	0.12
	PLACE1005932	F-PLACE1005932	0.13
	PLACE1005968	F-PLACE1005968	0.07
	PLACE1006002	F-PLACE1006002	0.08
35	PLACE1006003	F-PLACE1006003	0.16
	PLACE1006017	F-PLACE1006017	0.13
	PLACE1006076	F-PLACE1006076	0.11
	PLACE1006129	F-PLACE1006129	0.25
40	PLACE1006143	F-PLACE1006143	0.08
	PLACE1006164	F-PLACE1006164	0.05
	PLACE1006187	F-PLACE1006187	0.2
	PLACE1006205	F-PLACE1006205	0.08
	PLACE1006223	F-PLACE1006223	0.05
45	PLACE1006262	F-PLACE1006262	0.08
	PLACE1006288	F-PLACE1006288	0.06
	PLACE1006318	F-PLACE1006318	0.12
	PLACE1006360	F-PLACE1006360	0.07
50	PLACE1006368	F-PLACE1006368	0.27
	PLACE1006371	F-PLACE1006371	0.14
	PLACE1006382	F-PLACE1006382	0.09
	PLACE1006470	F-PLACE1006470	0.14
55	PLACE1006506	F-PLACE1006506	0.24
	PLACE1006521	F-PLACE1006521	0.08

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	PLACE1006534	F-PLACE1006534	0.06
	PLACE1006540	F-PLACE1006540	0.05
	PLACE1006617	F-PLACE1006617	0.05
5	PLACE1006629	F-PLACE1006629	0.2
	PLACE1006640	F-PLACE1006640	0.05
	PLACE1006754	F-PLACE1006754	0.08
	PLACE1006760	F-PLACE1006760	0.05
10	PLACE1006779	F-PLACE1006779	0.17
	PLACE1006792	F-PLACE1006792	0.15
	PLACE1006795	F-PLACE1006795	0.1
	PLACE1006800	F-PLACE1006800	0.11
15	PLACE1006805	F-PLACE1006805	0.12
	PLACE1006815	F-PLACE1006815	0.14
	PLACE1006860	F-PLACE1006860	0.06
	PLACE1006867	F-PLACE1006867	0.11
20	PLACE1006878	F-PLACE1006878	0.23
	PLACE1006904	F-PLACE1006904	0.13
	PLACE1007045	F-PLACE1007045	0.08
	PLACE1007097	F-PLACE1007097	0.13
25	PLACE1007111	F-PLACE1007111	0.08
	PLACE1007132	F-PLACE1007132	0.07
	PLACE1007140	F-PLACE1007140	0.16
	PLACE1007276	F-PLACE1007276	0.09
30	PLACE1007286	F-PLACE1007286	0.05
	PLACE1007478	F-PLACE1007478	0.19
	PLACE1007525	F-PLACE1007525	0.11
	PLACE1007557	F-PLACE1007557	0.13
35	PLACE1007677	F-PLACE1007677	0.08
	PLACE1007737	F-PLACE1007737	0.07
	PLACE1007743	F-PLACE1007743	0.09
	PLACE1007807	F-PLACE1007807	0.09
	PLACE1007829	F-PLACE1007829	0.09
40	PLACE1007852	F-PLACE1007852	0.14
	PLACE1007866	F-PLACE1007866	0.07
	PLACE1007877	F-PLACE1007877	0.29
	PLACE1008045	F-PLACE1008045	0.17
45	PLACE1008080	F-PLACE1008080	0.05
	PLACE1008111	F-PLACE1008111	0.11
	PLACE1008181	F-PLACE1008181	0.08
	PLACE1008201	F-PLACE1008201	0.12
50	PLACE1008231	F-PLACE1008231	0.08
	PLACE1008244	F-PLACE1008244	0.06
	PLACE1008330	F-PLACE1008330	0.13
	PLACE1008331	F-PLACE1008331	0.15
55	PLACE1008369	F-PLACE1008369	0.06
	PLACE1008392	F-PLACE1008392	0.09

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	PLACE1008405	F-PLACE1008405	0.07
	PLACE1008424	F-PLACE1008424	0.06
	PLACE1008426	F-PLACE1008426	0.17
5	PLACE1008437	F-PLACE1008437	0.2
	PLACE1008455	F-PLACE1008455	0.07
	PLACE1008584	F-PLACE1008584	0.29
	PLACE1008621	F-PLACE1008621	0.07
10	PLACE1008625	F-PLACE1008625	0.12
	PLACE1008630	F-PLACE1008630	0.12
	PLACE1008643	F-PLACE1008643	0.11
	PLACE1008715	F-PLACE1008715	0.2
15	PLACE1008748	F-PLACE1008748	0.15
	PLACE1008757	F-PLACE1008757	0.13
	PLACE1008798	F-PLACE1008798	0.14
	PLACE1008807	F-PLACE1008807	0.12
	PLACE1008851	F-PLACE1008851	0.22
20	PLACE1008920	F-PLACE1008920	0.1
	PLACE1008941	F-PLACE1008941	0.14
	PLACE1008947	F-PLACE1008947	0.05
	PLACE1009020	F-PLACE1009020	0.14
25	PLACE1009039	F-PLACE1009039	0.16
	PLACE1009048	F-PLACE1009048	0.09
	PLACE1009050	F-PLACE1009050	0.09
	PLACE1009150	F-PLACE1009150	0.12
30	PLACE1009155	F-PLACE1009155	0.08
	PLACE1009172	F-PLACE1009172	0.07
	PLACE1009183	F-PLACE1009183	0.07
	PLACE1009200	F-PLACE1009200	0.08
35	PLACE1009246	F-PLACE1009246	0.08
	PLACE1009308	F-PLACE1009308	0.23
	PLACE1009398	F-PLACE1009398	0.26
	PLACE1009410	F-PLACE1009410	0.15
40	PLACE1009477	F-PLACE1009477	0.18
	PLACE1009493	F-PLACE1009493	0.23
	PLACE1009539	F-PLACE1009539	0.11
	PLACE1009595	F-PLACE1009595	0.11
45	PLACE1009613	F-PLACE1009613	0.08
	PLACE1009621	F-PLACE1009621	0.19
	PLACE1009637	F-PLACE1009637	0.27
	PLACE1009639	F-PLACE1009639	0.27
	PLACE1009879	F-PLACE1009879	0.07
50	PLACE1009888	F-PLACE1009888	0.06
	PLACE1009924	F-PLACE1009924	0.09
	PLACE1009925	F-PLACE1009925	0.21
	PLACE1009935	F-PLACE1009935	0.22
55	PLACE1009947	F-PLACE1009947	0.19

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	PLACE1010069	F-PLACE1010069	0.22
	PLACE1010083	F-PLACE1010083	0.26
	PLACE1010089	F-PLACE1010089	0.13
5	PLACE1010181	F-PLACE1010181	0.07
	PLACE1010231	F-PLACE1010231	0.17
	PLACE1010270	F-PLACE1010270	0.08
	PLACE1010341	F-PLACE1010341	0.1
10	PLACE1010562	F-PLACE1010562	0.14
	PLACE1010579	F-PLACE1010579	0.15
	PLACE1010624	F-PLACE1010624	0.13
	PLACE1010628	F-PLACE1010628	0.16
15	PLACE1010631	F-PLACE1010631	0.23
	PLACE1010662	F-PLACE1010662	0.24
	PLACE1010702	F-PLACE1010702	0.21
	PLACE1010739	F-PLACE1010739	0.13
20	PLACE1010802	F-PLACE1010802	0.17
	PLACE1010891	F-PLACE1010891	0.09
	PLACE1010896	F-PLACE1010896	0.22
	PLACE1010916	F-PLACE1010916	0.15
25	PLACE1010947	F-PLACE1010947	0.08
	PLACE1011032	F-PLACE1011032	0.17
	PLACE1011057	F-PLACE1011057	0.1
	PLACE1011109	F-PLACE1011109	0.08
30	PLACE1011133	F-PLACE1011133	0.08
	PLACE1011143	F-PLACE1011143	0.23
	PLACE1011165	F-PLACE1011165	0.05
	PLACE1011185	F-PLACE1011185	0.17
35	PLACE1011203	F-PLACE1011203	0.08
	PLACE1011296	F-PLACE1011296	0.13
	PLACE1011340	F-PLACE1011340	0.05
	PLACE1011375	F-PLACE1011375	0.07
40	PLACE1011419	F-PLACE1011419	0.15
	PLACE1011452	F-PLACE1011452	0.13
	PLACE1011465	F-PLACE1011465	0.14
	PLACE1011492	F-PLACE1011492	0.26
	PLACE1011503	F-PLACE1011503	0.14
45	PLACE1011520	F-PLACE1011520	0.12
	PLACE1011567	F-PLACE1011567	0.13
	PLACE1011576	F-PLACE1011576	0.29
50	PLACE1011641	F-PLACE1011641	0.07
	PLACE1011643	F-PLACE1011643	0.27
	PLACE1011649	F-PLACE1011649	0.17
	PLACE1011650	F-PLACE1011650	0.13
	PLACE1011719	F-PLACE1011719	0.15
55	PLACE1011729	F-PLACE1011729	0.23
	PLACE1011749	F-PLACE1011749	0.12

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	PLACE1011762	F-PLACE1011762	0.06
	PLACE1011778	F-PLACE1011778	0.07
	PLACE1011874	F-PLACE1011874	0.07
5	PLACE1011962	F-PLACE1011962	0.06
	PLACE1011964	F-PLACE1011964	0.13
	PLACE1011995	F-PLACE1011995	0.08
	PLACE2000003	F-PLACE2000003	0.09
10	PLACE2000011	F-PLACE2000011	0.12
	PLACE2000017	F-PLACE2000017	0.22
	PLACE2000061	F-PLACE2000061	0.19
	PLACE2000103	F-PLACE2000103	0.16
15	PLACE2000115	F-PLACE2000115	0.11
	PLACE2000132	F-PLACE2000132	0.24
	PLACE2000136	F-PLACE2000136	0.09
	PLACE2000140	F-PLACE2000140	0.24
20	PLACE2000176	F-PLACE2000176	0.25
	PLACE2000187	F-PLACE2000187	0.16
	PLACE2000216	F-PLACE2000216	0.15
	PLACE2000264	F-PLACE2000264	0.06
25	PLACE2000305	F-PLACE2000305	0.05
	PLACE2000317	F-PLACE2000317	0.25
	PLACE2000335	F-PLACE2000335	0.09
	PLACE2000342	F-PLACE2000342	0.07
30	PLACE2000347	F-PLACE2000347	0.12
	PLACE2000366	F-PLACE2000366	0.08
	PLACE2000379	F-PLACE2000379	0.24
	PLACE2000394	F-PLACE2000394	0.2
35	PLACE2000398	F-PLACE2000398	0.21
	PLACE2000419	F-PLACE2000419	0.05
	PLACE2000425	F-PLACE2000425	0.16
	PLACE2000435	F-PLACE2000435	0.05
	PLACE2000450	F-PLACE2000450	0.12
40	PLACE2000455	F-PLACE2000455	0.15
	PLACE2000465	F-PLACE2000465	0.12
	PLACE2000477	F-PLACE2000477	0.3
	PLACE3000004	F-PLACE3000004	0.3
45	PLACE3000119	F-PLACE3000119	0.1
	PLACE3000124	F-PLACE3000124	0.11
	PLACE3000136	F-PLACE3000136	0.13
	PLACE3000158	F-PLACE3000158	0.06
50	PLACE3000169	F-PLACE3000169	0.13
	PLACE3000199	F-PLACE3000199	0.06
	PLACE3000207	F-PLACE3000207	0.11
	PLACE3000208	F-PLACE3000208	0.07
55	PLACE3000218	F-PLACE3000218	0.15
	PLACE3000220	F-PLACE3000220	0.05

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	PLACE3000230	F-PLACE3000230	0.23
	PLACE3000271	F-PLACE3000271	0.17
	PLACE3000276	F-PLACE3000276	0.2
5	PLACE3000341	F-PLACE3000341	0.08
	PLACE3000362	F-PLACE3000362	0.19
	PLACE3000365	F-PLACE3000365	0.09
	PLACE3000373	F-PLACE3000373	0.22
10	PLACE3000388	F-PLACE3000388	0.12
	PLACE3000399	F-PLACE3000399	0.14
	PLACE3000400	F-PLACE3000400	0.08
	PLACE3000401	F-PLACE3000401	0.1
15	PLACE3000402	F-PLACE3000402	0.1
	PLACE3000406	F-PLACE3000406	0.17
	PLACE3000475	F-PLACE3000475	0.07
	PLACE4000093	F-PLACE4000093	0.21
20	PLACE4000100	F-PLACE4000100	0.19
	PLACE4000233	F-PLACE4000233	0.07
	PLACE4000247	F-PLACE4000247	0.14
	PLACE4000250	F-PLACE4000250	0.17
25	PLACE4000252	F-PLACE4000252	0.09
	PLACE4000320	F-PLACE4000320	0.23
	PLACE4000344	F-PLACE4000344	0.21
	PLACE4000367	F-PLACE4000367	0.18
30	PLACE4000379	F-PLACE4000379	0.14
	PLACE4000401	F-PLACE4000401	0.13
	PLACE4000411	F-PLACE4000411	0.11
	PLACE4000494	F-PLACE4000494	0.19
35	PLACE4000548	F-PLACE4000548	0.27
	THYR01000026	F-THYR01000026	0.09
	THYR01000035	F-THYR01000035	0.09
	THYR01000085	F-THYR01000085	0.13
	THYR01000092	F-THYR01000092	0.21
40	THYR01000111	F-THYR01000111	0.13
	THYR01000129	F-THYR01000129	0.11
	THYR01000132	F-THYR01000132	0.1
	THYR01000156	F-THYR01000156	0.13
45	THYR01000186	F-THYR01000186	0.12
	THYR01000187	F-THYR01000187	0.11
	THYR01000190	F-THYR01000190	0.16
	THYR01000221	F-THYR01000221	0.08
50	THYR01000241	F-THYR01000241	0.08
	THYR01000279	F-THYR01000279	0.13
	THYR01000438	F-THYR01000438	0.06
	THYR01000452	F-THYR01000452	0.12
55	THYR01000471	F-THYR01000471	0.11
	THYR01000484	F-THYR01000484	0.24

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	THYRO1000558	F-THYRO1000558	0.09
	THYRO1000596	F-THYRO1000596	0.14
	THYRO1000602	F-THYRO1000602	0.13
5	THYRO1000625	F-THYRO1000625	0.2
	THYRO1000641	F-THYRO1000641	0.06
	THYRO1000658	F-THYRO1000658	0.12
	THYRO1000699	F-THYRO1000699	0.09
10	THYRO1000748	F-THYRO1000748	0.3
	THYRO1000793	F-THYRO1000793	0.25
	THYRO1000796	F-THYRO1000796	0.11
	THYRO1000805	F-THYRO1000805	0.28
15	THYRO1000815	F-THYRO1000815	0.14
	THYRO1000843	F-THYRO1000843	0.13
	THYRO1000852	F-THYRO1000852	0.05
	THYRO1000865	F-THYRO1000865	0.14
20	THYRO1000895	F-THYRO1000895	0.12
	THYRO1000974	F-THYRO1000974	0.07
	THYRO1000975	F-THYRO1000975	0.08
	THYRO1001003	F-THYRO1001003	0.11
25	THYRO1001031	F-THYRO1001031	0.1
	THYRO1001062	F-THYRO1001062	0.14
	THYRO1001093	F-THYRO1001093	0.13
	THYRO1001121	F-THYRO1001121	0.14
30	THYRO1001133	F-THYRO1001133	0.24
	THYRO1001177	F-THYRO1001177	
	THYRO1001262	F-THYRO1001262	0.2
	THYRO1001290	F-THYRO1001290	0.06
35	THYRO1001321	F-THYRO1001321	0.09
	THYRO1001322	F-THYRO1001322	0.13
	THYRO1001365	F-THYRO1001365	0.08
	THYRO1001401	F-THYRO1001401	0.21
40	THYRO1001411	F-THYRO1001411	0.06
	THYRO1001426	F-THYRO1001426	0.1
	THYRO1001434	F-THYRO1001434	0.15
	THYRO1001480	F-THYRO1001480	0.1
45	THYRO1001534	F-THYRO1001534	0.26
	THYRO1001541	F-THYRO1001541	0.22
	THYRO1001559	F-THYRO1001559	0.15
	THYRO1001570	F-THYRO1001570	0.28
	THYRO1001573	F-THYRO1001573	0.05
50	THYRO1001595	F-THYRO1001595	0.05
	THYRO1001617	F-THYRO1001617	0.1
	THYRO1001673	F-THYRO1001673	0.07
	THYRO1001706	F-THYRO1001706	0.15
55	THYRO1001745	F-THYRO1001745	0.12
	THYRO1001746	F-THYRO1001746	0.1

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	THYR01001772	F-THYR01001772	0.08
	THYR01001895	F-THYR01001895	0.19
	THYR01001907	F-THYR01001907	0.17
5	Y79AA1000033	F-Y79AA1000033	0.18
	Y79AA1000065	F-Y79AA1000065	0.22
	Y79AA1000346	F-Y79AA1000346	0.2
10	Y79AA1000405	F-Y79AA1000405	0.07
	Y79AA1000410	F-Y79AA1000410	0.08
	Y79AA1000538	F-Y79AA1000538	0.06
	Y79AA1000802	F-Y79AA1000802	0.28
15	Y79AA1000805	F-Y79AA1000805	0.2
	Y79AA1000969	F-Y79AA1000969	0.07
	Y79AA1001061	F-Y79AA1001061	0.22
	Y79AA1001167	F-Y79AA1001167	0.22
20	Y79AA1001384	F-Y79AA1001384	0.18
	Y79AA1001594	F-Y79AA1001594	0.22
	Y79AA1001692	F-Y79AA1001692	0.2
25	Y79AA1001848	F-Y79AA1001848	0.21
	Y79AA1001875	F-Y79AA1001875	0.09
	Y79AA1002103	F-Y79AA1002103	0.11
	Y79AA1002211	F-Y79AA1002211	0.19
30	Y79AA1002220	F-Y79AA1002220	0.25

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Table 11

574 clones belonging to groups (4), (5), (6), and (7), each having the maximal ATGpr1 score of not more than 0.3 and selected based on the maximal ATGpr2 score, and their maximal ATGpr2 scores

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clone name	name of sequence	maximal ATGpr2 score
HEMBA1000180	F-HEMBA1000180	0.37
HEMBA1000251	F-HEMBA1000251	0.14
HEMBA1000280	F-HEMBA1000280	0.33
HEMBA1000282	F-HEMBA1000282	0.36
HEMBA1000333	F-HEMBA1000333	0.59
HEMBA1000351	F-HEMBA1000351	0.36
HEMBA1000357	F-HEMBA1000357	0.39
HEMBA1000376	F-HEMBA1000376	0.53
HEMBA1000469	F-HEMBA1000469	0.32
HEMBA1000504	F-HEMBA1000504	0.34
HEMBA1000519	F-HEMBA1000519	0.72
HEMBA1000545	F-HEMBA1000545	0.32
HEMBA1000557	F-HEMBA1000557	0.35
HEMBA1000575	F-HEMBA1000575	0.34

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	HEMBA1000604	F-HEMBA1000604	0.28
	HEMBA1000622	F-HEMBA1000622	0.32
	HEMBA1000673	F-HEMBA1000673	0.14
5	HEMBA1000726	F-HEMBA1000726	0.32
	HEMBA1000749	F-HEMBA1000749	0.35
	HEMBA1000822	F-HEMBA1000822	0.42
	HEMBA1000876	F-HEMBA1000876	0.44
10	HEMBA1000934	F-HEMBA1000934	0.41
	HEMBA1000943	F-HEMBA1000943	0.34
	HEMBA1000960	F-HEMBA1000960	0.34
	HEMBA1000972	F-HEMBA1000972	0.44
15	HEMBA1001020	F-HEMBA1001020	0.31
	HEMBA1001024	F-HEMBA1001024	0.22
	HEMBA1001026	F-HEMBA1001026	0.28
	HEMBA1001051	F-HEMBA1001051	0.36
20	HEMBA1001060	F-HEMBA1001060	0.34
	HEMBA1001071	F-HEMBA1001071	0.57
	HEMBA1001208	F-HEMBA1001208	0.57
	HEMBA1001226	F-HEMBA1001226	0.44
25	HEMBA1001319	F-HEMBA1001319	0.58
	HEMBA1001383	F-HEMBA1001383	0.35
	HEMBA1001391	F-HEMBA1001391	0.42
	HEMBA1001411	F-HEMBA1001411	0.55
30	HEMBA1001433	F-HEMBA1001433	0.66
	HEMBA1001435	F-HEMBA1001435	0.72
	HEMBA1001478	F-HEMBA1001478	0.36
	HEMBA1001522	F-HEMBA1001522	0.31
35	HEMBA1001636	F-HEMBA1001636	0.32
	HEMBA1001651	F-HEMBA1001651	0.54
	HEMBA1001658	F-HEMBA1001658	0.38
	HEMBA1001709	F-HEMBA1001709	0.55
40	HEMBA1001734	F-HEMBA1001734	0.13
	HEMBA1001745	F-HEMBA1001745	0.33
	HEMBA1001784	F-HEMBA1001784	0.08
	HEMBA1001791	F-HEMBA1001791	0.48
45	HEMBA1001803	F-HEMBA1001803	0.21
	HEMBA1001808	F-HEMBA1001808	0.23
	HEMBA1001835	F-HEMBA1001835	0.67
	HEMBA1001844	F-HEMBA1001844	0.46
50	HEMBA1001888	F-HEMBA1001888	0.72
	HEMBA1001918	F-HEMBA1001918	0.25
	HEMBA1001940	F-HEMBA1001940	0.40
	HEMBA1001962	F-HEMBA1001962	0.63
55	HEMBA1002022	F-HEMBA1002022	0.32
	HEMBA1002185	F-HEMBA1002185	0.33
	HEMBA1002257	F-HEMBA1002257	0.13

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	HEMBA1002348	F-HEMBA1002348	0.39
	HEMBA1002621	F-HEMBA1002621	0.47
	HEMBA1002645	F-HEMBA1002645	0.34
5	HEMBA1002661	F-HEMBA1002661	0.43
	HEMBA1002728	F-HEMBA1002728	0.45
	HEMBA1002742	F-HEMBA1002742	0.49
	HEMBA1002921	F-HEMBA1002921	0.79
10	HEMBA1002924	F-HEMBA1002924	0.45
	HEMBA1002934	F-HEMBA1002934	0.34
	HEMBA1002968	F-HEMBA1002968	0.39
	HEMBA1003037	F-HEMBA1003037	0.43
15	HEMBA1003064	F-HEMBA1003064	0.19
	HEMBA1003071	F-HEMBA1003071	0.48
	HEMBA1003166	F-HEMBA1003166	0.32
	HEMBA1003202	F-HEMBA1003202	0.38
20	HEMBA1003204	F-HEMBA1003204	0.34
	HEMBA1003220	F-HEMBA1003220	0.39
	HEMBA1003229	F-HEMBA1003229	0.43
	HEMBA1003276	F-HEMBA1003276	0.48
25	HEMBA1003296	F-HEMBA1003296	0.36
	HEMBA1003373	F-HEMBA1003373	0.48
	HEMBA1003531	F-HEMBA1003531	0.46
	HEMBA1003640	F-HEMBA1003640	0.32
30	HEMBA1003714	F-HEMBA1003714	0.16
	HEMBA1003856	F-HEMBA1003856	0.47
	HEMBA1003902	F-HEMBA1003902	0.17
	HEMBA1003908	F-HEMBA1003908	0.44
35	HEMBA1003926	F-HEMBA1003926	0.36
	HEMBA1003942	F-HEMBA1003942	0.47
	HEMBA1003987	F-HEMBA1003987	0.39
	HEMBA1004000	F-HEMBA1004000	0.87
40	HEMBA1004024	F-HEMBA1004024	0.82
	HEMBA1004164	F-HEMBA1004164	0.21
	HEMBA1004267	F-HEMBA1004267	0.46
	HEMBA1004323	F-HEMBA1004323	0.37
45	HEMBA1004405	F-HEMBA1004405	0.23
	HEMBA1004433	F-HEMBA1004433	0.51
	HEMBA1004577	F-HEMBA1004577	0.51
	HEMBA1004730	F-HEMBA1004730	0.55
	HEMBA1004778	F-HEMBA1004778	0.47
50	HEMBA1004803	F-HEMBA1004803	0.36
	HEMBA1004807	F-HEMBA1004807	0.48
	HEMBA1004880	F-HEMBA1004880	0.43
	HEMBA1004900	F-HEMBA1004900	0.40
55	HEMBA1004909	F-HEMBA1004909	0.24
	HEMBA1004983	F-HEMBA1004983	0.35

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	HEMBA1005123	F-HEMBA1005123	0.35
	HEMBA1005232	F-HEMBA1005232	0.09
	HEMBA1005241	F-HEMBA1005241	0.34
5	HEMBA1005311	F-HEMBA1005311	0.37
	HEMBA1005318	F-HEMBA1005318	0.59
	HEMBA1005353	F-HEMBA1005353	0.34
	HEMBA1005374	F-HEMBA1005374	0.38
10	HEMBA1005447	F-HEMBA1005447	0.34
	HEMBA1005508	F-HEMBA1005508	0.14
	HEMBA1005577	F-HEMBA1005577	0.22
	HEMBA1005588	F-HEMBA1005588	0.54
15	HEMBA1005593	F-HEMBA1005593	0.44
	HEMBA1005606	F-HEMBA1005606	0.38
	HEMBA1005679	F-HEMBA1005679	0.87
	HEMBA1005894	F-HEMBA1005894	0.46
20	HEMBA1005911	F-HEMBA1005911	0.56
	HEMBA1006036	F-HEMBA1006036	0.87
	HEMBA1006124	F-HEMBA1006124	0.35
	HEMBA1006253	F-HEMBA1006253	0.35
25	HEMBA1006259	F-HEMBA1006259	0.54
	HEMBA1006364	F-HEMBA1006364	0.55
	HEMBA1006380	F-HEMBA1006380	0.48
	HEMBA1006426	F-HEMBA1006426	0.54
30	HEMBA1006461	F-HEMBA1006461	0.20
	HEMBA1006562	F-HEMBA1006562	0.72
	HEMBA1006597	F-HEMBA1006597	0.64
	HEMBA1006639	F-HEMBA1006639	0.55
35	HEMBA1006653	F-HEMBA1006653	0.34
	HEMBA1006695	F-HEMBA1006695	0.16
	HEMBA1006696	F-HEMBA1006696	0.37
	HEMBA1006744	F-HEMBA1006744	0.33
40	HEMBA1006824	F-HEMBA1006824	0.37
	HEMBA1006949	F-HEMBA1006949	0.78
	HEMBA1007078	F-HEMBA1007078	0.44
	HEMBA1007129	F-HEMBA1007129	0.55
45	HEMBA1007147	F-HEMBA1007147	0.41
	HEMBA1007206	F-HEMBA1007206	0.46
	HEMBA1007279	F-HEMBA1007279	0.45
	HEMBA1007327	F-HEMBA1007327	0.71
50	HEMBB1000005	F-HEMBB1000005	0.35
	HEMBB1000054	F-HEMBB1000054	0.18
	HEMBB1000055	F-HEMBB1000055	0.87
	HEMBB1000144	F-HEMBB1000144	0.47
	HEMBB1000258	F-HEMBB1000258	0.87
55	HEMBB1000318	F-HEMBB1000318	0.34
	HEMBB1000335	F-HEMBB1000335	0.48

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	HEMBB1000336	F-HEMBB1000336	0.35
	HEMBB1000354	F-HEMBB1000354	0.47
	HEMBB1000374	F-HEMBB1000374	0.69
5	HEMBB1000402	F-HEMBB1000402	0.54
	HEMBB1000404	F-HEMBB1000404	0.47
	HEMBB1000480	F-HEMBB1000480	0.35
	HEMBB1000493	F-HEMBB1000493	0.33
10	HEMBB1000554	F-HEMBB1000554	0.46
	HEMBB1000573	F-HEMBB1000573	0.34
	HEMBB1000649	F-HEMBB1000649	0.41
	HEMBB1000652	F-HEMBB1000652	0.46
15	HEMBB1000709	F-HEMBB1000709	0.56
	HEMBB1000749	F-HEMBB1000749	0.36
	HEMBB1000790	F-HEMBB1000790	0.58
	HEMBB1000827	F-HEMBB1000827	0.31
20	HEMBB1000831	F-HEMBB1000831	0.42
	HEMBB1000893	F-HEMBB1000893	0.36
	HEMBB1001004	F-HEMBB1001004	0.43
	HEMBB1001008	F-HEMBB1001008	0.44
25	HEMBB1001047	F-HEMBB1001047	0.47
	HEMBB1001119	F-HEMBB1001119	0.25
	HEMBB1001142	F-HEMBB1001142	0.15
	HEMBB1001315	F-HEMBB1001315	0.72
30	HEMBB1001317	F-HEMBB1001317	0.49
	HEMBB1001326	F-HEMBB1001326	0.44
	HEMBB1001337	F-HEMBB1001337	0.18
	HEMBB1001367	F-HEMBB1001367	0.35
35	HEMBB1001424	F-HEMBB1001424	0.34
	HEMBB1001436	F-HEMBB1001436	0.34
	HEMBB1001458	F-HEMBB1001458	0.47
	HEMBB1001535	F-HEMBB1001535	0.34
40	HEMBB1001536	F-HEMBB1001536	0.22
	HEMBB1001565	F-HEMBB1001565	0.35
	HEMBB1001747	F-HEMBB1001747	0.40
	HEMBB1001749	F-HEMBB1001749	0.39
	HEMBB1001797	F-HEMBB1001797	0.79
45	HEMBB1001836	F-HEMBB1001836	0.52
	HEMBB1001863	F-HEMBB1001863	0.38
	HEMBB1001868	F-HEMBB1001868	0.27
	HEMBB1001875	F-HEMBB1001875	0.46
50	HEMBB1001911	F-HEMBB1001911	0.87
	HEMBB1001922	F-HEMBB1001922	0.38
	HEMBB1001925	F-HEMBB1001925	0.33
	HEMBB1001944	F-HEMBB1001944	0.35
55	HEMBB1001983	F-HEMBB1001983	0.32
	HEMBB1001996	F-HEMBB1001996	0.39

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	HEMBB1001997	F-HEMBB1001997	0.36
	HEMBB1002045	F-HEMBB1002045	0.20
	HEMBB1002092	F-HEMBB1002092	0.31
5	HEMBB1002247	F-HEMBB1002247	0.53
	HEMBB1002266	F-HEMBB1002266	0.34
	HEMBB1002387	F-HEMBB1002387	0.32
	HEMBB1002425	F-HEMBB1002425	0.31
10	HEMBB1002458	F-HEMBB1002458	0.44
	HEMBB1002522	F-HEMBB1002522	0.56
	HEMBB1002534	F-HEMBB1002534	0.43
	HEMBB1002579	F-HEMBB1002579	0.21
15	HEMBB1002582	F-HEMBB1002582	0.48
	HEMBB1002596	F-HEMBB1002596	0.42
	HEMBB1002617	F-HEMBB1002617	0.47
	HEMBB1002702	F-HEMBB1002702	0.31
20	MAMMA1000043	F-MAMMA1000043	0.45
	MAMMA1000092	F-MAMMA1000092	0.39
	MAMMA1000129	F-MAMMA1000129	0.47
	MAMMA1000175	F-MAMMA1000175	0.18
25	MAMMA1000198	F-MAMMA1000198	0.46
	MAMMA1000221	F-MAMMA1000221	0.43
	MAMMA1000307	F-MAMMA1000307	0.35
	MAMMA1000331	F-MAMMA1000331	0.41
30	MAMMA1000356	F-MAMMA1000356	0.41
	MAMMA1000360	F-MAMMA1000360	0.33
	MAMMA1000402	F-MAMMA1000402	0.35
	MAMMA1000414	F-MAMMA1000414	0.32
35	MAMMA1000444	F-MAMMA1000444	0.13
	MAMMA1000500	F-MAMMA1000500	0.36
	MAMMA1000522	F-MAMMA1000522	0.46
	MAMMA1000576	F-MAMMA1000576	0.58
	MAMMA1000594	F-MAMMA1000594	0.69
40	MAMMA1000597	F-MAMMA1000597	0.35
	MAMMA1000720	F-MAMMA1000720	0.43
	MAMMA1000761	F-MAMMA1000761	0.13
	MAMMA1000775	F-MAMMA1000775	0.35
45	MAMMA1000778	F-MAMMA1000778	0.54
	MAMMA1000798	F-MAMMA1000798	0.40
	MAMMA1000862	F-MAMMA1000862	0.87
	MAMMA1000876	F-MAMMA1000876	0.47
50	MAMMA1000883	F-MAMMA1000883	0.41
	MAMMA1000931	F-MAMMA1000931	0.45
	MAMMA1000940	F-MAMMA1000940	0.35
	MAMMA1000941	F-MAMMA1000941	0.35
55	MAMMA1000943	F-MAMMA1000943	0.23
	MAMMA1000975	F-MAMMA1000975	0.32

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	MAMMA1001038	F-MAMMA1001038	0.41
	MAMMA1001162	F-MAMMA1001162	0.18
	MAMMA1001186	F-MAMMA1001186	0.49
5	MAMMA1001220	F-MAMMA1001220	0.43
	MAMMA1001256	F-MAMMA1001256	0.35
	MAMMA1001274	F-MAMMA1001274	0.57
	MAMMA1001341	F-MAMMA1001341	0.45
10	MAMMA1001397	F-MAMMA1001397	0.64
	MAMMA1001420	F-MAMMA1001420	0.41
	MAMMA1001547	F-MAMMA1001547	0.39
	MAMMA1001590	F-MAMMA1001590	0.46
15	MAMMA1001670	F-MAMMA1001670	0.36
	MAMMA1001679	F-MAMMA1001679	0.46
	MAMMA1001711	F-MAMMA1001711	0.68
	MAMMA1001745	F-MAMMA1001745	0.53
20	MAMMA1001760	F-MAMMA1001760	0.58
	MAMMA1001769	F-MAMMA1001769	0.33
	MAMMA1001815	F-MAMMA1001815	0.43
	MAMMA1001820	F-MAMMA1001820	0.19
25	MAMMA1001907	F-MAMMA1001907	0.38
	MAMMA1002056	F-MAMMA1002056	0.35
	MAMMA1002078	F-MAMMA1002078	0.34
	MAMMA1002093	F-MAMMA1002093	0.55
30	MAMMA1002125	F-MAMMA1002125	0.39
	MAMMA1002132	F-MAMMA1002132	0.57
	MAMMA1002145	F-MAMMA1002145	0.78
	MAMMA1002250	F-MAMMA1002250	0.72
35	MAMMA1002311	F-MAMMA1002311	0.58
	MAMMA1002360	F-MAMMA1002360	0.19
	MAMMA1002411	F-MAMMA1002411	0.40
	MAMMA1002498	F-MAMMA1002498	0.37
40	MAMMA1002571	F-MAMMA1002571	0.32
	MAMMA1002701	F-MAMMA1002701	0.55
	MAMMA1002727	F-MAMMA1002727	0.34
	MAMMA1002728	F-MAMMA1002728	0.55
45	MAMMA1002746	F-MAMMA1002746	0.45
	MAMMA1002764	F-MAMMA1002764	0.44
	MAMMA1002765	F-MAMMA1002765	0.40
	MAMMA1002820	F-MAMMA1002820	0.32
	MAMMA1002830	F-MAMMA1002830	0.36
50	MAMMA1002909	F-MAMMA1002909	0.64
	MAMMA1002941	F-MAMMA1002941	0.42
	MAMMA1002972	F-MAMMA1002972	0.08
	MAMMA1002973	F-MAMMA1002973	0.35
55	MAMMA1003004	F-MAMMA1003004	0.42
	MAMMA1003007	F-MAMMA1003007	0.41

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	MAMMA1003039	F-MAMMA1003039	0.46
	MAMMA1003089	F-MAMMA1003089	0.58
5	NT2RM4000086	F-NT2RM4000086	0.36
	NT2RM4000265	F-NT2RM4000265	0.39
	NT2RM4000366	F-NT2RM4000366	0.21
	NT2RM4000414	F-NT2RM4000414	0.35
	NT2RM4000425	F-NT2RM4000425	0.22
10	NT2RM4000779	F-NT2RM4000779	0.43
	NT2RM4000855	F-NT2RM4000855	0.52
	NT2RM4001160	F-NT2RM4001160	0.36
	NT2RM4001313	F-NT2RM4001313	0.38
15	NT2RM4001437	F-NT2RM4001437	0.53
	NT2RM4001754	F-NT2RM4001754	0.35
	NT2RM4001856	F-NT2RM4001856	0.27
	NT2RM4001953	F-NT2RM4001953	0.59
20	NT2RM4001984	F-NT2RM4001984	0.35
	NT2RM4002390	F-NT2RM4002390	0.24
	NT2RP2000077	F-NT2RP2000077	0.35
	NT2RP2000108	F-NT2RP2000108	0.08
25	NT2RP2000183	F-NT2RP2000183	0.43
	NT2RP2000257	F-NT2RP2000257	0.07
	NT2RP2000289	F-NT2RP2000289	0.35
	NT2RP2000420	F-NT2RP2000420	0.48
30	NT2RP2000678	F-NT2RP2000678	0.55
	NT2RP2000715	F-NT2RP2000715	0.37
	NT2RP2000842	F-NT2RP2000842	0.40
	NT2RP2000970	F-NT2RP2000970	0.46
35	NT2RP2001149	F-NT2RP2001149	0.31
	NT2RP2001226	F-NT2RP2001226	0.44
	NT2RP2001295	F-NT2RP2001295	0.40
	NT2RP2001347	F-NT2RP2001347	0.41
40	NT2RP2001467	F-NT2RP2001467	0.44
	NT2RP2001506	F-NT2RP2001506	0.17
	NT2RP2001569	F-NT2RP2001569	0.31
	NT2RP2001663	F-NT2RP2001663	0.37
45	NT2RP2001936	F-NT2RP2001936	0.33
	NT2RP2002041	F-NT2RP2002041	0.31
	NT2RP2002047	F-NT2RP2002047	0.15
	NT2RP2002066	F-NT2RP2002066	0.11
50	NT2RP2002172	F-NT2RP2002172	0.32
	NT2RP2002219	F-NT2RP2002219	0.54
	NT2RP2002316	F-NT2RP2002316	0.39
	NT2RP2002475	F-NT2RP2002475	0.09
55	NT2RP2002546	F-NT2RP2002546	0.33
	NT2RP2002591	F-NT2RP2002591	0.38
	NT2RP2002643	F-NT2RP2002643	0.55

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	NT2RP2002741	F-NT2RP2002741	0.73
	NT2RP2002750	F-NT2RP2002750	0.48
	NT2RP2002778	F-NT2RP2002778	0.41
5	NT2RP2002857	F-NT2RP2002857	0.34
	NT2RP2003000	F-NT2RP2003000	0.56
	NT2RP2003073	F-NT2RP2003073	0.36
	NT2RP2003237	F-NT2RP2003237	0.69
10	NT2RP2003394	F-NT2RP2003394	0.34
	NT2RP2003517	F-NT2RP2003517	0.44
	NT2RP2003668	F-NT2RP2003668	0.46
	NT2RP2003988	F-NT2RP2003988	0.55
15	NT2RP2004232	F-NT2RP2004232	0.34
	NT2RP2004400	F-NT2RP2004400	0.18
	NT2RP2004512	F-NT2RP2004512	0.11
	NT2RP2004523	F-NT2RP2004523	0.72
20	NT2RP2004587	F-NT2RP2004587	0.09
	NT2RP2004736	F-NT2RP2004736	0.70
	NT2RP2004767	F-NT2RP2004767	0.54
	NT2RP2004775	F-NT2RP2004775	0.53
25	NT2RP2004961	F-NT2RP2004961	0.49
	NT2RP2004962	F-NT2RP2004962	0.87
	NT2RP2004982	F-NT2RP2004982	0.32
	NT2RP2005289	F-NT2RP2005289	0.24
30	NT2RP2005407	F-NT2RP2005407	0.33
	NT2RP2005531	F-NT2RP2005531	0.20
	NT2RP2005694	F-NT2RP2005694	0.21
	NT2RP2005726	F-NT2RP2005726	0.42
35	NT2RP2005942	F-NT2RP2005942	0.10
	NT2RP2006258	F-NT2RP2006258	0.37
	NT2RP2006261	F-NT2RP2006261	0.42
	NT2RP2006454	F-NT2RP2006454	0.46
40	NT2RP2006554	F-NT2RP2006554	0.14
	NT2RP3000055	F-NT2RP3000055	0.31
	NT2RP3000233	F-NT2RP3000233	0.54
	NT2RP3000341	F-NT2RP3000341	0.43
45	NT2RP3000418	F-NT2RP3000418	0.53
	NT2RP3000451	F-NT2RP3000451	0.46
	NT2RP3000561	F-NT2RP3000561	0.47
	NT2RP3000582	F-NT2RP3000582	0.44
50	NT2RP3001007	F-NT2RP3001007	0.26
	NT2RP3001281	F-NT2RP3001281	0.36
	NT2RP3001318	F-NT2RP3001318	0.21
	NT2RP3001339	F-NT2RP3001339	0.58
55	NT2RP3001340	F-NT2RP3001340	0.41
	NT2RP3001383	F-NT2RP3001383	0.36
	NT2RP3001432	F-NT2RP3001432	0.34

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	NT2RP3001580	F-NT2RP3001580	0.45
	NT2RP3001589	F-NT2RP3001589	0.48
	NT2RP3001898	F-NT2RP3001898	0.19
5	NT2RP3002004	F-NT2RP3002004	0.36
	NT2RP3002173	F-NT2RP3002173	0.39
	NT2RP3003133	F-NT2RP3003133	0.35
	NT2RP3003264	F-NT2RP3003264	0.13
10	NT2RP3003346	F-NT2RP3003346	0.72
	NT2RP3003403	F-NT2RP3003403	0.45
	NT2RP3003433	F-NT2RP3003433	0.24
	NT2RP3003576	F-NT2RP3003576	0.35
15	NT2RP3003625	F-NT2RP3003625	0.43
	NT2RP3003665	F-NT2RP3003665	0.32
	NT2RP3003800	F-NT2RP3003800	0.34
	NT2RP3003828	F-NT2RP3003828	0.52
20	NT2RP3003842	F-NT2RP3003842	0.23
	NT2RP3004070	F-NT2RP3004070	0.32
	NT2RP3004470	F-NT2RP3004470	0.46
	NT2RP4000023	F-NT2RP4000023	0.33
25	NT2RP4000035	F-NT2RP4000035	0.56
	NT2RP4000102	F-NT2RP4000102	0.38
	NT2RP4000167	F-NT2RP4000167	0.42
	NT2RP4000214	F-NT2RP4000214	0.33
30	NT2RP4000218	F-NT2RP4000218	0.37
	NT2RP4000424	F-NT2RP4000424	0.48
	NT2RP4000915	F-NT2RP4000915	0.37
	NT2RP4002075	F-NT2RP4002075	0.43
35	OVARC1000017	F-OVARC1000017	0.14
	OVARC1000068	F-OVARC1000068	0.17
	OVARC1000085	F-OVARC1000085	0.46
	OVARC1000092	F-OVARC1000092	0.58
40	OVARC1000145	F-OVARC1000145	0.53
	OVARC1000414	F-OVARC1000414	0.40
	OVARC1000486	F-OVARC1000486	0.15
	OVARC1000496	F-OVARC1000496	0.36
45	OVARC1000526	F-OVARC1000526	0.33
	OVARC1000948	F-OVARC1000948	0.71
	OVARC1001011	F-OVARC1001011	0.42
	OVARC1001240	F-OVARC1001240	0.14
50	OVARC1001600	F-OVARC1001600	0.37
	OVARC1001805	F-OVARC1001805	0.51
	OVARC1001813	F-OVARC1001813	0.58
	OVARC1001846	F-OVARC1001846	0.59
55	PLACE1000540	F-PLACE1000540	0.35
	PLACE1000599	F-PLACE1000599	0.37
	PLACE1001088	F-PLACE1001088	0.36

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	PLACE1001323	F-PLACE1001323	0.21
	PLACE1001377	F-PLACE1001377	0.41
	PLACE1001440	F-PLACE1001440	0.45
5	PLACE1001517	F-PLACE1001517	0.41
	PLACE1001672	F-PLACE1001672	0.35
	PLACE1001705	F-PLACE1001705	0.11
	PLACE1001756	F-PLACE1001756	0.67
10	PLACE1002157	F-PLACE1002157	0.68
	PLACE1002205	F-PLACE1002205	0.55
	PLACE1002227	F-PLACE1002227	0.14
	PLACE1002259	F-PLACE1002259	0.47
15	PLACE1002319	F-PLACE1002319	0.29
	PLACE1002399	F-PLACE1002399	0.31
	PLACE1002477	F-PLACE1002477	0.35
	PLACE1002500	F-PLACE1002500	0.26
20	PLACE1002583	F-PLACE1002583	0.49
	PLACE1002604	F-PLACE1002604	0.25
	PLACE1002772	F-PLACE1002772	0.13
	PLACE1002853	F-PLACE1002853	0.46
25	PLACE1002968	F-PLACE1002968	0.33
	PLACE1003238	F-PLACE1003238	0.46
	PLACE1003420	F-PLACE1003420	0.42
	PLACE1003478	F-PLACE1003478	0.20
30	PLACE1003566	F-PLACE1003566	0.35
	PLACE1003593	F-PLACE1003593	0.42
	PLACE1003618	F-PLACE1003618	0.36
	PLACE1004274	F-PLACE1004274	0.41
35	PLACE1004681	F-PLACE1004681	0.25
	PLACE1004716	F-PLACE1004716	0.49
	PLACE1004773	F-PLACE1004773	0.31
	PLACE1004815	F-PLACE1004815	0.72
40	PLACE1004836	F-PLACE1004836	0.39
	PLACE1004913	F-PLACE1004913	0.44
	PLACE1004979	F-PLACE1004979	0.44
	PLACE1005052	F-PLACE1005052	0.63
45	PLACE1005086	F-PLACE1005086	0.57
	PLACE1005108	F-PLACE1005108	0.17
	PLACE1005128	F-PLACE1005128	0.40
	PLACE1005176	F-PLACE1005176	0.48
	PLACE1005467	F-PLACE1005467	0.37
50	PLACE1005639	F-PLACE1005639	0.33
	PLACE1005850	F-PLACE1005850	0.54
	PLACE1005932	F-PLACE1005932	0.20
	PLACE1006003	F-PLACE1006003	0.71
55	PLACE1006017	F-PLACE1006017	0.42
	PLACE1006288	F-PLACE1006288	0.34

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	PLACE1006318	F-PLACE1006318	0.22
	PLACE1006368	F-PLACE1006368	0.10
	PLACE1006371	F-PLACE1006371	0.43
5	PLACE1006506	F-PLACE1006506	0.28
	PLACE1006629	F-PLACE1006629	0.44
	PLACE1006795	F-PLACE1006795	0.35
	PLACE1006904	F-PLACE1006904	0.20
10	PLACE1007478	F-PLACE1007478	0.70
	PLACE1007557	F-PLACE1007557	0.17
	PLACE1007743	F-PLACE1007743	0.28
	PLACE1007829	F-PLACE1007829	0.16
15	PLACE1007877	F-PLACE1007877	0.16
	PLACE1008181	F-PLACE1008181	0.39
	PLACE1008330	F-PLACE1008330	0.86
	PLACE1008584	F-PLACE1008584	0.61
20	PLACE1008630	F-PLACE1008630	0.09
	PLACE1008715	F-PLACE1008715	0.36
	PLACE1008851	F-PLACE1008851	0.39
	PLACE1008941	F-PLACE1008941	0.42
25	PLACE1009039	F-PLACE1009039	0.43
	PLACE1009048	F-PLACE1009048	0.24
	PLACE1009493	F-PLACE1009493	0.35
	PLACE1009539	F-PLACE1009539	0.31
30	PLACE1009637	F-PLACE1009637	0.58
	PLACE1009925	F-PLACE1009925	0.17
	PLACE1009947	F-PLACE1009947	0.42
	PLACE1010231	F-PLACE1010231	0.36
35	PLACE1010562	F-PLACE1010562	0.63
	PLACE1010579	F-PLACE1010579	0.42
	PLACE1010739	F-PLACE1010739	0.49
	PLACE1010802	F-PLACE1010802	0.41
40	PLACE1010896	F-PLACE1010896	0.47
	PLACE1011032	F-PLACE1011032	0.46
	PLACE1011109	F-PLACE1011109	0.19
	PLACE1011185	F-PLACE1011185	0.66
45	PLACE1011452	F-PLACE1011452	0.72
	PLACE1011465	F-PLACE1011465	0.51
	PLACE1011492	F-PLACE1011492	0.19
	PLACE1011520	F-PLACE1011520	0.54
	PLACE1011567	F-PLACE1011567	0.51
50	PLACE1011643	F-PLACE1011643	0.21
	PLACE1011719	F-PLACE1011719	0.55
	PLACE1011749	F-PLACE1011749	0.24
	PLACE2000011	F-PLACE2000011	0.48
55	PLACE2000017	F-PLACE2000017	0.34
	PLACE2000061	F-PLACE2000061	0.34

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	PLACE2000187	F-PLACE2000187	0.40
	PLACE2000216	F-PLACE2000216	0.32
	PLACE2000335	F-PLACE2000335	0.78
5	PLACE2000347	F-PLACE2000347	0.36
	PLACE2000366	F-PLACE2000366	0.33
	PLACE2000394	F-PLACE2000394	0.54
	PLACE2000398	F-PLACE2000398	0.44
10	PLACE2000425	F-PLACE2000425	0.47
	PLACE2000450	F-PLACE2000450	0.53
	PLACE2000477	F-PLACE2000477	0.36
	PLACE3000119	F-PLACE3000119	0.40
	PLACE3000207	F-PLACE3000207	0.32
15	PLACE3000230	F-PLACE3000230	0.51
	PLACE3000271	F-PLACE3000271	0.41
	PLACE3000373	F-PLACE3000373	0.37
	PLACE3000399	F-PLACE3000399	0.42
20	PLACE3000401	F-PLACE3000401	0.37
	PLACE3000406	F-PLACE3000406	0.46
	PLACE4000247	F-PLACE4000247	0.64
	PLACE4000320	F-PLACE4000320	0.36
25	PLACE4000344	F-PLACE4000344	0.31
	PLACE4000367	F-PLACE4000367	0.32
	PLACE4000401	F-PLACE4000401	0.54
	PLACE4000548	F-PLACE4000548	0.26
30	THYRO1000111	F-THYRO1000111	0.53
	THYRO1000129	F-THYRO1000129	0.45
	THYRO1000187	F-THYRO1000187	0.46
	THYRO1000279	F-THYRO1000279	0.09
35	THYRO1000484	F-THYRO1000484	0.36
	THYRO1000596	F-THYRO1000596	0.47
	THYRO1000625	F-THYRO1000625	0.59
	THYRO1000793	F-THYRO1000793	0.17
40	THYRO1000815	F-THYRO1000815	0.58
	THYRO1000865	F-THYRO1000865	0.55
	THYRO1001003	F-THYRO1001003	0.34
	THYRO1001031	F-THYRO1001031	0.43
45	THYRO1001133	F-THYRO1001133	0.52
	THYRO1001321	F-THYRO1001321	0.37
	THYRO1001401	F-THYRO1001401	0.36
	THYRO1001426	F-THYRO1001426	0.32
50	THYRO1001434	F-THYRO1001434	0.39
	THYRO1001559	F-THYRO1001559	0.45
	THYRO1001570	F-THYRO1001570	0.35
	THYRO1001706	F-THYRO1001706	0.45
55	THYRO1001746	F-THYRO1001746	0.43
	THYRO1001772	F-THYRO1001772	0.37

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THYR01001907	F-THYR01001907	0.33
Y79AA1000033	F-Y79AA1000033	0.53
Y79AA1000346	F-Y79AA1000346	0.53
Y79AA1000410	F-Y79AA1000410	0.13
Y79AA1000805	F-Y79AA1000805	0.32
Y79AA1001692	F-Y79AA1001692	0.45
Y79AA1002103	F-Y79AA1002103	0.15
Y79AA1002220	F-Y79AA1002220	0.49

EXAMPLE 13

Full-length sequence analysis and homology search

Full-length sequence was determined for each selected cDNA clones. The nucleotide sequence determination was performed mainly by the dye-terminator method using custom synthesized DNA primers according to the primer walking procedure (custom synthesized DNA primers were used for sequencing; sequencing reaction was performed with DNA sequencing reagent supplied by PE Biosystems according to the supplier's manual; and the samples were analyzed in an automatic sequencer made by the same supplier). Sequence determination of some clones was carried out in the same manner but using a Licor DNA sequencer. Overlapping partial nucleotide sequences, which were obtained by the above-described method, were assembled together to determine a full-length nucleotide sequence. Amino acid sequences were then deduced from the determined full-length nucleotide sequences. However, amino acid sequence is not shown for a clone of which coding region was hard to be deduced or of which amino acid sequence has less than 100 amino acid residues. SEQ ID NOS corresponding to the respective clones are indicated in Table 350 and Table 351.

GenBank, Swiss-Prot and UniGene were searched for the determined nucleotide sequences by BLAST analysis. Matching data of cDNA clone which exhibits higher homology and of which functions are easily predicted based on the nucleotide sequences and the deduced amino acid sequences are selected from the BLAST analysis matching data with P value of 10^{-4} or less. The matching data selected are listed herein. The results of homology search 6, 12, 13, and 14 are indicated in the last part of this specification. However, there are some clones that did not match the criteria for judgment and such matching data of BLAST analysis are not shown herein.

EXAMPLE 14

Novel full-length cDNA clone obtained from a cDNA library prepared by oligo-capping method

A cDNA clone, NT2RP4002298, was obtained from a cDNA library, NT2RP4 (see Example 1), prepared by oligo-capping method. Analysis of the entire nucleotide sequence of the clone has revealed that the clone encodes a novel protein consisting of 775 amino acids. The ATGpr1

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score at the initiation codon of the amino acid sequence is 0.16, and therefore, the fullness ratio is low. However, the sequence can be full-length.

The full-length nucleotide sequence of NT2RP4002298 is shown in SEQ ID NO: 12370, and the deduced amino acid sequence encoded by the clone NT2RP4002298 is shown in SEQ ID NO: 12371.

EXAMPLE 15

Gene expression analysis with hybridization using high density DNA filter

Nylon membrane for DNA spotting was prepared according to the following procedure. *E. coli* was cultured in each well of a 96-well plate (in a LB medium at 37°C for 16 hours). A small aliquot of each culture was suspended in 10 µl of sterile water in a well of a 96-well plate. The plate was heated at 100°C for 10 minutes. Then the boiled samples were analyzed by PCR reaction. PCR was performed in a 20 µl solution by using TaKaRa PCR Amplification Kit (Takara) according to the supplier's protocol. Primers used for the amplification of an insert cDNA in a plasmid were a pair of sequencing primers, ME761FW (5' tacggaagtgttactctgc 3' / SEQ ID NO: 13290) and ME1250RV (5' tgtgggaggtttttctcta 3' / SEQ ID NO: 13291), or a pair of primers, M13M4 (5' gttttccagtcacgac 3' / SEQ ID NO: 13292) and M13RV (5' caggaaacagctatgac 3' / SEQ ID NO: 13293). PCR reaction was performed in a thermal cycler, GeneAmp System 9600 (PE Biosystems). The cycling profile consisted of pre-heat at 95°C for 5 minutes; 10 cycles of denaturation at 95°C for 10 seconds, and annealing/extension at 68°C for 1 minute; 20 cycles of denaturation at 98°C for 20 seconds and annealing/extension at 60°C for 3 minutes; and final extension at 72°C for 10 minutes. After the PCR reaction, the 20 µl reaction solution was loaded onto a 1 % agarose gel and fractionated by electrophoresis. DNA on the gel was stained with ethidium bromide to confirm the amplification of cDNA. When cDNAs were barely amplified by PCR, plasmids containing the corresponding insert cDNAs were prepared by the alkali-extraction method (J. Sambrook, E.F., Fritsh, & T. Maniatis, "Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989).

Preparation of DNA array was carried out by the following procedure. An Aliquot of a DNA solution was added in each well of a 384-well plate. DNA was spotted onto a nylon membrane (Boehringer) by using a 384-pin tool of Biomek 2000 Laboratory Automation Sysytem (Beckman-Coulter). Specifically, the 384-well plate containing the DNA was placed under the 384-pin tool. The independent 384 needles were simultaneously dipped into the DNA solution for DNA deposition. The needles were gently pressed onto a nylon membrane and the DNA deposited at the tips of needles was spotted onto the membrane. Denaturation of the spotted DNA and immobilization of the DNA on the nylon membrane were carried out according to usual manners (J. Sambrook, E.F., Fritsh, & T. Maniatis, "Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989).

Hybridization probe used was radioisotope-labeled 1st strand cDNA. The 1st strand cDNA synthesis was performed by using Thermoscript^(TM) RT-PCR System (GIBCO). Specifically, the 1st strand cDNA was synthesized by using 1.5 µg mRNAs from various human tissues (Clontech), 1 µl aliquots of 50 µM Oligo(dT)20 and 50 µCi [α -³²P]dATP according to an attached protocol. Probe purification was carried out by using ProbeQuant^(TM) G-50 micro column (Amersham-Pharmacia Biotech) according to an attached protocol. In the next step, 2 units of *E.*

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coli RNaseH were added to the reaction mixture. The mixture was incubated at room temperature for 10 minutes and then 100 µg of human COT-1 DNA (GIBCO) was added thereto. The mixture was incubated at 97°C for 10 minutes and then was allowed to stand on ice to give hybridization probe.

Hybridization of the radioisotope-labeled probe to the DNA array was performed in a usual manner (J. Sambrook, E.F., Fritsh, & T. Maniatis, Molecular Cloning, A laboratory manual/ 2nd edition, Cold Spring Harbor Laboratory Press, 1989). The membrane was washed as follows: the nylon membrane was incubated in Washing solution 1 (2 × SSC, 1% SDS) at room temperature (about 26°C) for 20 minutes and this washing was repeated 3 times; then the membrane was washed 3 times by incubating it in Washing solution 2 (0.1 × SSC, 1% SDS) at 65°C for 20 minutes. Autoradiography was performed by using an image plate for BAS2000 (Fuji Photo Film Co., Ltd.). Specifically, the nylon membrane with probe hybridized thereon was wrapped with a piece of Saran Wrap and brought into tight contact with the image plate on the light-sensitive surface. The membrane with the image plate was placed in an imaging cassette for radioisotope and allowed to stand in dark place for 4 hours. The radioactivity recorded on the image plate was analyzed by using BAS2000 (Fuji Photo Film Co., Ltd.). The activity was subjected to electronic conversion and recorded as an image file of autoradiogram. The signal intensity of each DNA spot was analyzed by using Visage High Density Grid Analysis Systems (Genomic Solutions Inc.). The signal intensity was converted into numerical data. The data were taken by duplicated measurements. The reproducibility was assessed by comparing the signal intensities of the corresponding spots on the duplicated DNA filters that were hybridized to a single DNA probe (Figure 2). The ratio between the corresponding spots falls within a range of 2 or less in 95% of entire spots and the correlation coefficient is $r=0.97$. Thus the reproducibility is assumed to be satisfactory.

The detection sensitivity in gene expression analysis was estimated by examining increases in the signal intensity of probe concentration-dependent spot in hybridization using a probe complementary to the DNA spotted on the nylon membrane. DNA used was PLACE1008092 (same as DNA deposited in GenBank under an Accession No. AF107253). The DNA array with DNA of PLACE1008092 was prepared according to the above-mentioned method. The probe used was prepared as follows: mRNA was synthesized in vitro from the clone, PLACE1008092. By using this mRNA as a template, radioisotope-labeled 1st strand cDNA was synthesized in the same manner as described above, and the cDNA was used as the probe. The cDNA PLACE1008092 was inserted into pBluescript SK(-), of which T7 promoter was ligated to the 5' end of the cDNA, to give a plasmid for in vitro synthesis of the mRNA from PLACE1008092. Specifically, the PLACE1008092 insert was cut out from pME18SFL3 carrying the cDNA at a DraIII site thereof by XhoI digestion. The resulting PLACE1008092 fragment was ligated to XhoI-predigested pBluescript SK(-) by using DNA ligation kit ver.2 (Takara). The in-vitro mRNA synthesis from PLACE1008092 inserted in pBluescript SK(-) was carried out by using Ampliscribe^(TM) T7 high yield transcription kit (Epicentre technologies). Hybridization and the analysis of signal intensity of each DNA spot were conducted by the same methods as described above. When the probe concentration is 1×10^7 µg/ml or less, there was no increase of signal intensity proportional to the probe concentration. Therefore it was assumed to be difficult to compare the signals with one another in the concentration range. Thus the spots with the intensity of 40 or less were indiscriminately taken as low-level signals (Figure 3). Within a concentration of the probe ranging from 1×10^7 µg/ml to 0.1 µg/ml, the signal was

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found to increase in a probe concentration-dependent manner. The detection limit was then assumed to be 1:100,000 in a ratio of mRNA expression level in a sample.

Tables 12-168 (also containing clones with no description in Examples) show the expression of each cDNA in human normal tissues (heart, lung, pituitary gland, thymus, brain, kidney, liver and spleen). The expression levels are indicated by numerical values of 0-10,000. Genes that were expressed in at least a single tissue are indicated below by the corresponding clone names:

10	HEMBA1000012,	HEMBA1000020,	HEMBA1000030,	HEMBA1000042,	HEMBA1000046,
	HEMBA1000076,	HEMBA1000111,	HEMBA1000129,	HEMBA1000150,	HEMBA1000156,
	HEMBA1000158,	HEMBA1000168,	HEMBA1000185,	HEMBA1000216,	HEMBA1000227,
	HEMBA1000231,	HEMBA1000243,	HEMBA1000244,	HEMBA1000280,	HEMBA1000282,
15	HEMBA1000288,	HEMBA1000303,	HEMBA1000304,	HEMBA1000327,	HEMBA1000338,
	HEMBA1000351,	HEMBA1000355,	HEMBA1000356,	HEMBA1000357,	HEMBA1000366,
	HEMBA1000369,	HEMBA1000376,	HEMBA1000387,	HEMBA1000392,	HEMBA1000396,
	HEMBA1000411,	HEMBA1000422,	HEMBA1000428,	HEMBA1000456,	HEMBA1000459,
20	HEMBA1000469,	HEMBA1000488,	HEMBA1000491,	HEMBA1000501,	HEMBA1000505,
	HEMBA1000508,	HEMBA1000519,	HEMBA1000523,	HEMBA1000534,	HEMBA1000540,
	HEMBA1000542,	HEMBA1000545,	HEMBA1000557,	HEMBA1000561,	HEMBA1000568,
25	HEMBA1000569,	HEMBA1000575,	HEMBA1000588,	HEMBA1000591,	HEMBA1000604,

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	HEMBA1000622,	HEMBA1000636,	HEMBA1000655,	HEMBA1000657,	HEMBA1000673,
	HEMBA1000682,	HEMBA1000702,	HEMBA1000705,	HEMBA1000726,	HEMBA1000749,
	HEMBA1000752,	HEMBA1000769,	HEMBA1000774,	HEMBA1000791,	HEMBA1000827,
5	HEMBA1000843,	HEMBA1000852,	HEMBA1000870,	HEMBA1000872,	HEMBA1000876,
	HEMBA1000908,	HEMBA1000910,	HEMBA1000918,	HEMBA1000919,	HEMBA1000934,
	HEMBA1000942,	HEMBA1000960,	HEMBA1000971,	HEMBA1000972,	HEMBA1000975,
	HEMBA1000986,	HEMBA1000991,	HEMBA1001007,	HEMBA1001008,	HEMBA1001017,
10	HEMBA1001020,	HEMBA1001051,	HEMBA1001059,	HEMBA1001060,	HEMBA1001077,
	HEMBA1001080,	HEMBA1001085,	HEMBA1001088,	HEMBA1001109,	HEMBA1001121,
	HEMBA1001123,	HEMBA1001133,	HEMBA1001137,	HEMBA1001140,	HEMBA1001172,
	HEMBA1001197,	HEMBA1001208,	HEMBA1001213,	HEMBA1001226,	HEMBA1001235,
15	HEMBA1001265,	HEMBA1001281,	HEMBA1001286,	HEMBA1001289,	HEMBA1001294,
	HEMBA1001299,	HEMBA1001302,	HEMBA1001303,	HEMBA1001310,	HEMBA1001326,
	HEMBA1001330,	HEMBA1001351,	HEMBA1001375,	HEMBA1001377,	HEMBA1001387,
	HEMBA1001388,	HEMBA1001398,	HEMBA1001405,	HEMBA1001413,	HEMBA1001415,
20	HEMBA1001432,	HEMBA1001433,	HEMBA1001435,	HEMBA1001446,	HEMBA1001450,
	HEMBA1001454,	HEMBA1001463,	HEMBA1001476,	HEMBA1001497,	HEMBA1001510,
	HEMBA1001515,	HEMBA1001517,	HEMBA1001526,	HEMBA1001533,	HEMBA1001557,
	HEMBA1001566,	HEMBA1001569,	HEMBA1001570,	HEMBA1001579,	HEMBA1001581,
25	HEMBA1001589,	HEMBA1001595,	HEMBA1001608,	HEMBA1001620,	HEMBA1001636,
	HEMBA1001640,	HEMBA1001647,	HEMBA1001651,	HEMBA1001655,	HEMBA1001661,
	HEMBA1001678,	HEMBA1001709,	HEMBA1001712,	HEMBA1001714,	HEMBA1001718,
	HEMBA1001731,	HEMBA1001734,	HEMBA1001745,	HEMBA1001761,	HEMBA1001781,
30	HEMBA1001784,	HEMBA1001791,	HEMBA1001804,	HEMBA1001808,	HEMBA1001809,
	HEMBA1001815,	HEMBA1001822,	HEMBA1001824,	HEMBA1001844,	HEMBA1001847,
	HEMBA1001864,	HEMBA1001866,	HEMBA1001869,	HEMBA1001888,	HEMBA1001896,
	HEMBA1001910,	HEMBA1001912,	HEMBA1001913,	HEMBA1001939,	HEMBA1001940,
35	HEMBA1001964,	HEMBA1001967,	HEMBA1001987,	HEMBA1001991,	HEMBA1002003,
	HEMBA1002008,	HEMBA1002018,	HEMBA1002035,	HEMBA1002049,	HEMBA1002092,
	HEMBA1002100,	HEMBA1002102,	HEMBA1002113,	HEMBA1002119,	HEMBA1002125,
	HEMBA1002144,	HEMBA1002150,	HEMBA1002151,	HEMBA1002160,	HEMBA1002161,
40	HEMBA1002162,	HEMBA1002166,	HEMBA1002177,	HEMBA1002185,	HEMBA1002189,
	HEMBA1002191,	HEMBA1002226,	HEMBA1002229,	HEMBA1002237,	HEMBA1002241,
	HEMBA1002265,	HEMBA1002267,	HEMBA1002270,	HEMBA1002328,	HEMBA1002337,
	HEMBA1002341,	HEMBA1002363,	HEMBA1002381,	HEMBA1002389,	HEMBA1002417,
45	HEMBA1002419,	HEMBA1002439,	HEMBA1002458,	HEMBA1002462,	HEMBA1002469,
	HEMBA1002477,	HEMBA1002486,	HEMBA1002495,	HEMBA1002498,	HEMBA1002503,
	HEMBA1002508,	HEMBA1002513,	HEMBA1002515,	HEMBA1002538,	HEMBA1002542,
	HEMBA1002552,	HEMBA1002558,	HEMBA1002561,	HEMBA1002569,	HEMBA1002590,
50	HEMBA1002592,	HEMBA1002609,	HEMBA1002624,	HEMBA1002629,	HEMBA1002645,
	HEMBA1002659,	HEMBA1002661,	HEMBA1002678,	HEMBA1002679,	HEMBA1002696,
	HEMBA1002703,	HEMBA1002712,	HEMBA1002728,	HEMBA1002730,	HEMBA1002746,
	HEMBA1002748,	HEMBA1002750,	HEMBA1002768,	HEMBA1002777,	HEMBA1002779,
	HEMBA1002780,	HEMBA1002794,	HEMBA1002810,	HEMBA1002816,	HEMBA1002818,
55	HEMBA1002826,	HEMBA1002833,	HEMBA1002863,	HEMBA1002876,	HEMBA1002896,
	HEMBA1002921,	HEMBA1002924,	HEMBA1002934,	HEMBA1002935,	HEMBA1002944,

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	HEMBA1002968,	HEMBA1002970,	HEMBA1002971,	HEMBA1002973,	HEMBA1002997,
	HEMBA1003021,	HEMBA1003033,	HEMBA1003034,	HEMBA1003037,	HEMBA1003041,
	HEMBA1003046,	HEMBA1003067,	HEMBA1003071,	HEMBA1003078,	HEMBA1003079,
5	HEMBA1003083,	HEMBA1003086,	HEMBA1003098,	HEMBA1003129,	HEMBA1003133,
	HEMBA1003136,	HEMBA1003142,	HEMBA1003148,	HEMBA1003166,	HEMBA1003175,
	HEMBA1003179,	HEMBA1003199,	HEMBA1003202,	HEMBA1003204,	HEMBA1003212,
	HEMBA1003220,	HEMBA1003229,	HEMBA1003235,	HEMBA1003257,	HEMBA1003273,
10	HEMBA1003276,	HEMBA1003278,	HEMBA1003281,	HEMBA1003286,	HEMBA1003296,
	HEMBA1003314,	HEMBA1003322,	HEMBA1003327,	HEMBA1003328,	HEMBA1003330,
	HEMBA1003348,	HEMBA1003370,	HEMBA1003373,	HEMBA1003376,	HEMBA1003380,
	HEMBA1003384,	HEMBA1003403,	HEMBA1003408,	HEMBA1003418,	HEMBA1003447,
15	HEMBA1003461,	HEMBA1003463,	HEMBA1003480,	HEMBA1003528,	HEMBA1003531,
	HEMBA1003538,	HEMBA1003556,	HEMBA1003571,	HEMBA1003581,	HEMBA1003591,
	HEMBA1003595,	HEMBA1003597,	HEMBA1003598,	HEMBA1003615,	HEMBA1003617,
	HEMBA1003621,	HEMBA1003637,	HEMBA1003640,	HEMBA1003645,	HEMBA1003656,
20	HEMBA1003667,	HEMBA1003680,	HEMBA1003690,	HEMBA1003692,	HEMBA1003711,
	HEMBA1003714,	HEMBA1003715,	HEMBA1003720,	HEMBA1003725,	HEMBA1003729,
	HEMBA1003733,	HEMBA1003742,	HEMBA1003758,	HEMBA1003760,	HEMBA1003773,
	HEMBA1003803,	HEMBA1003804,	HEMBA1003805,	HEMBA1003827,	HEMBA1003836,
25	HEMBA1003838,	HEMBA1003864,	HEMBA1003879,	HEMBA1003880,	HEMBA1003885,
	HEMBA1003893,	HEMBA1003902,	HEMBA1003926,	HEMBA1003937,	HEMBA1003942,
	HEMBA1003958,	HEMBA1003978,	HEMBA1003987,	HEMBA1003989,	HEMBA1004011,
	HEMBA1004012,	HEMBA1004024,	HEMBA1004048,	HEMBA1004049,	HEMBA1004056,
30	HEMBA1004074,	HEMBA1004086,	HEMBA1004097,	HEMBA1004111,	HEMBA1004131,
	HEMBA1004132,	HEMBA1004133,	HEMBA1004138,	HEMBA1004146,	HEMBA1004164,
	HEMBA1004200,	HEMBA1004203,	HEMBA1004225,	HEMBA1004227,	HEMBA1004238,
	HEMBA1004246,	HEMBA1004267,	HEMBA1004274,	HEMBA1004275,	HEMBA1004289,
35	HEMBA1004306,	HEMBA1004312,	HEMBA1004321,	HEMBA1004323,	HEMBA1004327,
	HEMBA1004335,	HEMBA1004341,	HEMBA1004353,	HEMBA1004354,	HEMBA1004356,
	HEMBA1004396,	HEMBA1004405,	HEMBA1004408,	HEMBA1004429,	HEMBA1004433,
	HEMBA1004460,	HEMBA1004461,	HEMBA1004479,	HEMBA1004499,	HEMBA1004506,
40	HEMBA1004507,	HEMBA1004509,	HEMBA1004534,	HEMBA1004538,	HEMBA1004542,
	HEMBA1004554,	HEMBA1004560,	HEMBA1004577,	HEMBA1004586,	HEMBA1004596,
	HEMBA1004604,	HEMBA1004610,	HEMBA1004617,	HEMBA1004629,	HEMBA1004669,
	HEMBA1004670,	HEMBA1004672,	HEMBA1004697,	HEMBA1004705,	HEMBA1004709,
45	HEMBA1004711,	HEMBA1004725,	HEMBA1004736,	HEMBA1004748,	HEMBA1004751,
	HEMBA1004752,	HEMBA1004753,	HEMBA1004756,	HEMBA1004758,	HEMBA1004763,
	HEMBA1004771,	HEMBA1004778,	HEMBA1004803,	HEMBA1004816,	HEMBA1004847,
	HEMBA1004850,	HEMBA1004863,	HEMBA1004864,	HEMBA1004865,	HEMBA1004880,
50	HEMBA1004909,	HEMBA1004918,	HEMBA1004923,	HEMBA1004930,	HEMBA1004933,
	HEMBA1004934,	HEMBA1004944,	HEMBA1004954,	HEMBA1004960,	HEMBA1004972,
	HEMBA1004980,	HEMBA1005008,	HEMBA1005019,	HEMBA1005035,	HEMBA1005039,
	HEMBA1005047,	HEMBA1005050,	HEMBA1005075,	HEMBA1005079,	HEMBA1005101,
55	HEMBA1005113,	HEMBA1005123,	HEMBA1005133,	HEMBA1005149,	HEMBA1005152,
	HEMBA1005201,	HEMBA1005202,	HEMBA1005206,	HEMBA1005223,	HEMBA1005241,
	HEMBA1005244,	HEMBA1005251,	HEMBA1005252,	HEMBA1005275,	HEMBA1005296,

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	HEMBA1005304,	HEMBA1005311,	HEMBA1005315,	HEMBA1005331,	HEMBA1005338,
	HEMBA1005353,	HEMBA1005359,	HEMBA1005367,	HEMBA1005374,	HEMBA1005382,
	HEMBA1005389,	HEMBA1005403,	HEMBA1005408,	HEMBA1005411,	HEMBA1005423,
5	HEMBA1005443,	HEMBA1005447,	HEMBA1005468,	HEMBA1005469,	HEMBA1005472,
	HEMBA1005474,	HEMBA1005475,	HEMBA1005500,	HEMBA1005511,	HEMBA1005513,
	HEMBA1005518,	HEMBA1005520,	HEMBA1005526,	HEMBA1005530,	HEMBA1005548,
	HEMBA1005552,	HEMBA1005558,	HEMBA1005568,	HEMBA1005570,	HEMBA1005576,
10	HEMBA1005577,	HEMBA1005581,	HEMBA1005583,	HEMBA1005588,	HEMBA1005593,
	HEMBA1005595,	HEMBA1005606,	HEMBA1005609,	HEMBA1005616,	HEMBA1005627,
	HEMBA1005632,	HEMBA1005634,	HEMBA1005670,	HEMBA1005679,	HEMBA1005680,
	HEMBA1005685,	HEMBA1005705,	HEMBA1005717,	HEMBA1005732,	HEMBA1005765,
15	HEMBA1005780,	HEMBA1005813,	HEMBA1005815,	HEMBA1005822,	HEMBA1005829,
	HEMBA1005834,	HEMBA1005852,	HEMBA1005853,	HEMBA1005894,	HEMBA1005911,
	HEMBA1005921,	HEMBA1005931,	HEMBA1005934,	HEMBA1005962,	HEMBA1005990,
	HEMBA1005991,	HEMBA1005999,	HEMBA1006002,	HEMBA1006005,	HEMBA1006031,
20	HEMBA1006036,	HEMBA1006042,	HEMBA1006081,	HEMBA1006090,	HEMBA1006091,
	HEMBA1006100,	HEMBA1006108,	HEMBA1006121,	HEMBA1006124,	HEMBA1006138,
	HEMBA1006142,	HEMBA1006155,	HEMBA1006173,	HEMBA1006182,	HEMBA1006235,
	HEMBA1006248,	HEMBA1006252,	HEMBA1006253,	HEMBA1006259,	HEMBA1006278,
25	HEMBA1006283,	HEMBA1006309,	HEMBA1006310,	HEMBA1006328,	HEMBA1006344,
	HEMBA1006349,	HEMBA1006359,	HEMBA1006364,	HEMBA1006377,	HEMBA1006380,
	HEMBA1006381,	HEMBA1006398,	HEMBA1006416,	HEMBA1006419,	HEMBA1006421,
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50 Genes that were expressed in all the tissues tested are indicated below by the corresponding clone names:

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Genes that were expressed at low levels in any of the tissues tested are indicated below by
 40 the corresponding clone names:

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	PLACE1005845,	PLACE1005851,	PLACE1005876,	PLACE1005884,	PLACE1005890,
	PLACE1005932,	PLACE1005936,	PLACE1005951,	PLACE1005953,	PLACE1005955,
50	PLACE1005966,	PLACE1005990,	PLACE1006003,	PLACE1006037,	PLACE1006076,
	PLACE1006119,	PLACE1006157,	PLACE1006164,	PLACE1006187,	PLACE1006195,
	PLACE1006205,	PLACE1006225,	PLACE1006236,	PLACE1006239,	PLACE1006246,
	PLACE1006248,	PLACE1006262,	PLACE1006335,	PLACE1006357,	PLACE1006360,
55	PLACE1006371,	PLACE1006382,	PLACE1006414,	PLACE1006445,	PLACE1006482,
	PLACE1006506,	PLACE1006534,	PLACE1006598,	PLACE1006626,	PLACE1006629,

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	PLACE1006640,	PLACE1006678,	PLACE1006731,	PLACE1006754,	PLACE1006779,
	PLACE1006795,	PLACE1006800,	PLACE1006805,	PLACE1006815,	PLACE1006819,
	PLACE1006860,	PLACE1006878,	PLACE1006901,	PLACE1006917,	PLACE1006935,
5	PLACE1006958,	PLACE1006966,	PLACE1007021,	PLACE1007053,	PLACE1007097,
	PLACE1007105,	PLACE1007111,	PLACE1007112,	PLACE1007178,	PLACE1007226,
	PLACE1007239,	PLACE1007242,	PLACE1007243,	PLACE1007301,	PLACE1007317,
	PLACE1007342,	PLACE1007375,	PLACE1007409,	PLACE1007416,	PLACE1007478,
10	PLACE1007484,	PLACE1007488,	PLACE1007507,	PLACE1007511,	PLACE1007544,
	PLACE1007583,	PLACE1007598,	PLACE1007618,	PLACE1007645,	PLACE1007649,
	PLACE1007677,	PLACE1007690,	PLACE1007697,	PLACE1007705,	PLACE1007706,
	PLACE1007725,	PLACE1007729,	PLACE1007730,	PLACE1007743,	PLACE1007746,
15	PLACE1007791,	PLACE1007807,	PLACE1007810,	PLACE1007829,	PLACE1007843,
	PLACE1007852,	PLACE1007858,	PLACE1007897,	PLACE1007954,	PLACE1007955,
	PLACE1007958,	PLACE1007990,	PLACE1008000,	PLACE1008002,	PLACE1008044,
	PLACE1008045,	PLACE1008111,	PLACE1008122,	PLACE1008129,	PLACE1008132,
20	PLACE1008181,	PLACE1008198,	PLACE1008201,	PLACE1008209,	PLACE1008231,
	PLACE1008244,	PLACE1008273,	PLACE1008275,	PLACE1008309,	PLACE1008356,
	PLACE1008368,	PLACE1008369,	PLACE1008392,	PLACE1008401,	PLACE1008402,
	PLACE1008424,	PLACE1008426,	PLACE1008429,	PLACE1008437,	PLACE1008488,
25	PLACE1008524,	PLACE1008532,	PLACE1008568,	PLACE1008584,	PLACE1008603,
	PLACE1008621,	PLACE1008625,	PLACE1008626,	PLACE1008629,	PLACE1008630,
	PLACE1008650,	PLACE1008693,	PLACE1008696,	PLACE1008715,	PLACE1008748,
	PLACE1008757,	PLACE1008790,	PLACE1008798,	PLACE1008807,	PLACE1008808,
30	PLACE1008854,	PLACE1008887,	PLACE1008902,	PLACE1008920,	PLACE1008925,
	PLACE1008934,	PLACE1008941,	PLACE1009020,	PLACE1009027,	PLACE1009039,
	PLACE1009045,	PLACE1009048,	PLACE1009050,	PLACE1009060,	PLACE1009090,
	PLACE1009099,	PLACE1009110,	PLACE1009113,	PLACE1009130,	PLACE1009150,
35	PLACE1009158,	PLACE1009172,	PLACE1009186,	PLACE1009190,	PLACE1009230,
	PLACE1009298,	PLACE1009319,	PLACE1009328,	PLACE1009335,	PLACE1009338,
	PLACE1009375,	PLACE1009398,	PLACE1009404,	PLACE1009410,	PLACE1009434,
	PLACE1009443,	PLACE1009468,	PLACE1009476,	PLACE1009477,	PLACE1009493,
40	PLACE1009539,	PLACE1009542,	PLACE1009571,	PLACE1009581,	PLACE1009596,
	PLACE1009613,	PLACE1009622,	PLACE1009637,	PLACE1009639,	PLACE1009659,
	PLACE1009665,	PLACE1009708,	PLACE1009721,	PLACE1009763,	PLACE1009794,
	PLACE1009798,	PLACE1009845,	PLACE1009886,	PLACE1009888,	PLACE1009908,
	PLACE1009921,	PLACE1009924,	PLACE1009925,	PLACE1009935,	PLACE1009971,
45	PLACE1009992,	PLACE1009995,	PLACE1009997,	PLACE1010031,	PLACE1010053,
	PLACE1010069,	PLACE1010083,	PLACE1010089,	PLACE1010096,	PLACE1010102,
	PLACE1010105,	PLACE1010106,	PLACE1010134,	PLACE1010148,	PLACE1010152,
	PLACE1010181,	PLACE1010194,	PLACE1010202,	PLACE1010231,	PLACE1010261,
50	PLACE1010270,	PLACE1010274,	PLACE1010324,	PLACE1010329,	PLACE1010341,
	PLACE1010364,	PLACE1010401,	PLACE1010481,	PLACE1010491,	PLACE1010492,
	PLACE1010547,	PLACE1010562,	PLACE1010579,	PLACE1010599,	PLACE1010616,
	PLACE1010622,	PLACE1010624,	PLACE1010628,	PLACE1010630,	PLACE1010631,
55	PLACE1010662,	PLACE1010714,	PLACE1010739,	PLACE1010743,	PLACE1010800,
	PLACE1010802,	PLACE1010811,	PLACE1010857,	PLACE1010870,	PLACE1010877,

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	PLACE1010891,	PLACE1010896,	PLACE1010916,	PLACE1010917,	PLACE1010960,
	PLACE1010965,	PLACE1011026,	PLACE1011057,	PLACE1011143,	PLACE1011160,
	PLACE1011165,	PLACE1011203,	PLACE1011214,	PLACE1011221,	PLACE1011229,
5	PLACE1011263,	PLACE1011273,	PLACE1011310,	PLACE1011325,	PLACE1011332,
	PLACE1011375,	PLACE1011399,	PLACE1011419,	PLACE1011433,	PLACE1011465,
	PLACE1011503,	PLACE1011520,	PLACE1011563,	PLACE1011635,	PLACE1011641,
	PLACE1011643,	PLACE1011664,	PLACE1011675,	PLACE1011729,	PLACE1011762,
10	PLACE1011778,	PLACE1011858,	PLACE1011874,	PLACE1011875,	PLACE1011896,
	PLACE1011964,	PLACE1011982,	PLACE1012031,	PLACE2000006,	PLACE2000014,
	PLACE2000015,	PLACE2000021,	PLACE2000033,	PLACE2000061,	PLACE2000072,
15	PLACE2000097,	PLACE2000115,	PLACE2000136,	PLACE2000164,	PLACE2000223,
	PLACE2000371,	PLACE2000379,	PLACE2000477,	PLACE3000059,	PLACE3000121,
	PLACE3000160,	PLACE3000199,	PLACE3000218,	PLACE3000244,	PLACE3000310,
	PLACE3000320,	PLACE3000339,	PLACE3000350,	PLACE3000373,	PLACE4000089,
20	PLACE4000093,	PLACE4000147,	PLACE4000252,	PLACE4000270,	PLACE4000367,
	PLACE4000392,	PLACE4000401,	PLACE4000558,	PLACE4000590,	PLACE4000654,
	PLACE4000670,	SKNMC1000011,	SKNMC1000013,	SKNMC1000046,	SKNMC1000050,
	SKNMC1000091,	THYRO1000035,	THYRO1000111,	THYRO1000121,	THYRO1000124,
25	THYRO1000129,	THYRO1000156,	THYRO1000199,	THYRO1000242,	THYRO1000270,
	THYRO1000279,	THYRO1000288,	THYRO1000327,	THYRO1000381,	THYRO1000438,
	THYRO1000488,	THYRO1000501,	THYRO1000502,	THYRO1000505,	THYRO1000570,
	THYRO1000596,	THYRO1000605,	THYRO1000641,	THYRO1000662,	THYRO1000734,
30	THYRO1000777,	THYRO1000783,	THYRO1000793,	THYRO1000796,	THYRO1000805,
	THYRO1000829,	THYRO1000852,	THYRO1000895,	THYRO1000934,	THYRO1000952,
	THYRO1001033,	THYRO1001100,	THYRO1001134,	THYRO1001142,	THYRO1001204,
	THYRO1001262,	THYRO1001271,	THYRO1001290,	THYRO1001347,	THYRO1001559,
35	THYRO1001661,	THYRO1001721,	THYRO1001745,	Y79AA1000328,	Y79AA1000420,
	Y79AA1000705,	Y79AA1000734,	Y79AA1000748,	Y79AA1000752,	Y79AA1000774,
	Y79AA1000784,	Y79AA1000802,	Y79AA1000824,	Y79AA1000827,	Y79AA1000976,
	Y79AA1001078,	Y79AA1001281,	Y79AA1001312,	Y79AA1001493,	Y79AA1001541,
40	Y79AA1001581,	Y79AA1001585,	Y79AA1001696,	Y79AA1001781,	Y79AA1001848,
	Y79AA1001874,	Y79AA1001923,	Y79AA1002027,	Y79AA1002115,	Y79AA1002139,
	Y79AA1002208,	Y79AA1002209,	Y79AA1002210,	Y79AA1002220,	Y79AA1002298,
	Y79AA1002307,	Y79AA1002311,	Y79AA1002407,	Y79AA1002416,	Y79AA1002431,
45	Y79AA1002487,				

Genes exhibiting characteristic features in the expression thereof were selected by statistical analysis of these data. Two examples are shown below to describe the selection of genes of which expression is varied greatly among tissues. The β' actin gene is used frequently as a control in gene expression analysis. Genes of which expression is varied greatly among tissues as compared that of the β -actin gene were determined as follows. Specifically, sum of squared deviation was calculated in the signal intensity of β -actin observed in each tissue, which was divided by 7 degrees of freedom to determine a variance S_a^2 . Next, sum of squared deviation was calculated in the signal intensity of a gene to be compared observed in

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each tissue, which was divided by 7 degrees of freedom to determine a variance S_b^2 . By taking variance ratio F as $F=S_b^2/S_a^2$, genes with a significance level of 5% or more were extracted in the F distribution. Genes extracted are indicated below by the corresponding clone names:

HEMBA1002113, HEMBA1005296, HEMBA1007121, HEMBB1000637, HEMBB1000915,
MAMMA1000597, MAMMA1000605, MAMMA1000962, MAMMA1001139, MAMMA1001198,
MAMMA1002858, NT2RM2001896, NT2RP2002710, NT2RP2004339, NT2RP2004538,
NT2RP3000348, NT2RP3003121, PLACE3000009, PLACE3000254, THYRO1000569,
Y79AA1000131.

Gene of OVARC1000037 {heterogeneous nuclear ribonucleoprotein (hnRNP)} which expression is varied little. Genes of which expression is varied greatly among tissues as compared that of the OVARC1000037 gene were determined as follows. Specifically, sum of squared deviation was calculated in the signal intensity of β -actin observed in each tissue, which was divided by 7 degrees of freedom to determine a variance S_a^2 . Next, sum of squared deviation was calculated in the signal intensity of a gene to be compared observed in each tissue, which was divided by 7 degrees of freedom to determine a variance S_b^2 . By taking variance ratio F as $F=S_b^2/S_a^2$, genes with a significance level of 5% or more were extracted in the F distribution. Genes extracted are indicated below, by the corresponding clone names:

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	HEMBA1000304,	NT2RM2001716,	NT2RM2001840,	HEMBA1001051,	HEMBA1001109,
	OVARC1001731,	HEMBA1000726,	HEMBA1001286,	HEMBA1000387,	HEMBA1000519,
	NT2RM2001896,	HEMBA1000042,	HEMBA1001085,	HEMBA1001330,	OVARC1000576,
5	HEMBA1000575,	NT2RM2000599,	NT2RM2000714,	HEMBA1000469,	NT2RM4000366,
	HEMBA1001377,	HEMBA1000769,	HEMBA1000338,	NT2RM2000795,	HEMBA1001299,
	HEMBA1000508,	HEMBA1000150,	HEMBA1000774,	HEMBA1001226,	HEMBA1000960,
	NT2RM4000795,	HEMBA1002162,	NT2RM4001876,	NT2RM4002482,	HEMBA1001678,
10	HEMBA1002113,	NT2RM4002383,	HEMBA1002229,	HEMBA1002818,	HEMBA1001454,
	NT2RM4000764,	HEMBA1001510,	HEMBA1001714,	HEMBA1002150,	NT2RM4002044,
	HEMBA1002728,	NT2RM4002189,	HEMBA1001991,	HEMBA1002166,	NT2RM4002499,
	NT2RM4001140,	NT2RM4002504,	HEMBA1002590,	HEMBA1001435,	PLACE1000706,
15	HEMBA1002160,	HEMBA1001824,	HEMBA1001463,	HEMBA1001533,	HEMBA1001570,
	PLACE1001036,	HEMBA1001651,	HEMBA1002381,	HEMBA1002934,	HEMBA1003370,
	HEMBA1003021,	HEMBA1003166,	NT2RP1000738,	NT2RP2000040,	HEMBA1004164,
	HEMBA1003836,	HEMBA1004267,	NT2RP2000845,	HEMBA1003041,	HEMBA1003571,
20	HEMBA1003758,	NT2RP2000108,	HEMBA1003838,	NT2RP1000357,	HEMBA1003376,
	PLACE1003528,	HEMBA1003528,	NT2RP1001475,	HEMBA1004049,	HEMBA1003212,
	HEMBA1003667,	PLACE1004149,	HEMBA1003926,	HEMBA1004306,	HEMBA1004024,
	NT2RP1000363,	HEMBA1003033,	HEMBA1004335,	HEMBA1003348,	HEMBA1003034,
25	NT2RP2001081,	HEMBA1004056,	HEMBA1003314,	HEMBA1003827,	HEMBA1003893,
	NT2RP2001036,	NT2RP2001168,	NT2RP2001328,	HEMBA1005035,	NT2RP2001569,
	NT2RP2002439,	HEMBA1005511,	HEMBA1005999,	NT2RP2002862,	NT2RP2002979,
	NT2RP2001394,	HEMBA1004753,	NT2RP2002621,	HEMBA1005853,	HEMBA1005443,
30	NT2RP2002980,	NT2RP2001347,	HEMBA1005241,	NT2RP2002750,	NT2RP2003533,
	HEMBA1005634,	NT2RP2003034,	HEMBA1006138,	NT2RP2003117,	NT2RP2001366,
	HEMBA1005079,	NT2RP2003293,	NT2RP2002710,	HEMBA1005911,	NT2RP2002752,
	HEMBA1006036,	NT2RP2002987,	HEMBA1006100,	HEMBA1004460,	HEMBA1004538,
35	NT2RP2001943,	NT2RP2002033,	HEMBA1005296,	HEMBA1005829,	HEMBA1005520,
	HEMBA1005123,	HEMBA1005552,	HEMBA1004930,	NT2RP2001312,	HEMBA1005304,
	HEMBA1005834,	HEMBA1005990,	HEMBA1005526,	NT2RP2003073,	HEMBA1005331,
40	HEMBA1006744,	HEMBA1006780,	NT2RP2004339,	HEMBA1000173,	HEMBA1007113,
	NT2RP2005908,	HEMBA1000376,	HEMBA1000024,	HEMBA1000510,	NT2RP2004580,

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	NT2RP2003912,	HEMBA1006381,	NT2RP2004270,	HEMBA1006993,	NT2RP2005325,
	HEMBB1000218,	HEMBA1007121,	HEMBB1000434,	NT2RP2006166,	PLACE1010310,
	HEMBB1000589,	NT2RP2003986,	HEMBA1006419,	HEMBB1000141,	HEMBB1000030,
5	HEMBB1000099,	HEMBA1006624,	NT2RP2003988,	NT2RP2005753,	HEMBA1007147,
	HEMBB1000354,	NT2RP2006023,	HEMBB1000441,	HEMBB1000523,	HEMBB1000059,
	HEMBA1006631,	NT2RP2004538,	HEMBA1006695,	HEMBB1000490,	NT2RP2006184,
	HEMBB1000573,	NT2RP2004675,	HEMBA1007078,	NT2RP2005457,	NT2RP2005491,
10	HEMBB1000491,	HEMBB1000575,	PLACE1008405,	NT2RP2005773,	NT2RP2005354,
	HEMBB1000337,	HEMBB1000008,	NT2RP2005701,	NT2RP2003825,	HEMBB1000215,
	HEMBB1000258,	NT2RP2005496,	HEMBB1000374,	NT2RP2005581,	HEMBB1000018,
	HEMBB1000493,	HEMBB1000554,	HEMBB1000671,	NT2RP3000348,	HEMBB1001267,
15	HEMBB1002092,	HEMBB1001749,	PLACE3000304,	HEMBB1001834,	HEMBB1001142,
	HEMBB1001177,	HEMBB1000840,	HEMBB1001436,	HEMBB1001921,	HEMBB1002005,
	NT2RP3001398,	HEMBB1002069,	HEMBB1002094,	HEMBB1001836,	HEMBB1001114,
	NT2RP3000628,	HEMBB1001367,	HEMBB1001588,	HEMBB1002249,	HEMBB1000684,
20	NT2RP2006571,	HEMBB1001802,	HEMBB1000915,	HEMBB1000996,	NT2RP3001274,
	HEMBB1001564,	NT2RP3000968,	PLACE3000156,	HEMBB1002045,	NT2RP3000341,
	HEMBB1000917,	PLACE1011090,	NT2RP3000742,	PLACE2000435,	HEMBB1001944,
	PLACE3000254,	HEMBB1002218,	NT2RP2006436,	NT2RP3000320,	HEMBB1001126,
25	HEMBB1000749,	NT2RP3000644,	HEMBB1001527,	NT2RP3000850,	HEMBB1001967,
	PLACE3000401,	HEMBB1000637,	HEMBB1001234,	NT2RP3000080,	PLACE2000411,
	PLACE3000009,	PLACE3000070,	HEMBB1002134,	PLACE3000475,	PLACE4000192,
	HEMBB1002520,	HEMBB1002545,	MAMMA1000155,	MAMMA1000307,	THYRO1000787,
30	MAMMA1000348,	MAMMA1000372,	NT2RP3003121,	MAMMA1000851,	MAMMA1000501,
	THYRO1000569,	MAMMA1000576,	MAMMA1000605,	HEMBB1002442,	HEMBB1002596,
	MAMMA1000198,	MAMMA1000714,	MAMMA1000356,	MAMMA1000760,	MAMMA1000416,
	MAMMA1000931,	MAMMA1000962,	HEMBB1002387,	NT2RP3001712,	HEMBB1002556,
	HEMBB1002617,	MAMMA1000171,	PLACE4000612,	MAMMA1000761,	MAMMA1000421,
35	MAMMA1000444,	HEMBB1002358,	HEMBB1002453,	HEMBB1002664,	HEMBB1002699,
	MAMMA1000720,	MAMMA1000360,	MAMMA1000744,	MAMMA1000802,	MAMMA1000839,
	MAMMA1000478,	MAMMA1000877,	MAMMA1000585,	MAMMA1000941,	NT2RP3002909,
	MAMMA1000968,	HEMBB1002457,	HEMBB1002495,	MAMMA1000057,	MAMMA1000696,
40	MAMMA1000942,	MAMMA1000302,	MAMMA1000943,	MAMMA1000998,	NT2RP3001752,
	NT2RP3003032,	MAMMA1000429,	MAMMA1000565,	MAMMA1000594,	MAMMA1000625,
	NT2RP3002146,	MAMMA1000084,	MAMMA1000257,	NT2RP3003157,	MAMMA1000431,
	MAMMA1000597,	MAMMA1001078,	MAMMA1001126,	THYRO1001537,	NT2RP3004093,
45	MAMMA1001202,	NT2RP3003842,	Y79AA1000342,	MAMMA1002311,	MAMMA1001969,
	Y79AA1000560,	MAMMA1002359,	MAMMA1002056,	MAMMA1002413,	MAMMA1002454,
	MAMMA1002612,	MAMMA1001411,	MAMMA1001035,	MAMMA1001080,	MAMMA1001133,
	NT2RP3004095,	MAMMA1001161,	MAMMA1001203,	MAMMA1001663,	NT2RP3003819,
50	MAMMA1001745,	MAMMA1001790,	NT2RP3004470,	NT2RP3004503,	MAMMA1002293,
	NT2RP4000321,	MAMMA1001880,	Y79AA1000410,	MAMMA1001970,	MAMMA1002058,
	NT2RP4000515,	MAMMA1002215,	MAMMA1002617,	NT2RP3003576,	MAMMA1001139,
	MAMMA1001576,	Y79AA1000131,	MAMMA1001330,	MAMMA1001769,	MAMMA1001383,
55	MAMMA1002032,	MAMMA1002125,	MAMMA1002174,	NT2RP4000614,	NT2RP4000243,
	NT2RP3004110,	MAMMA1001271,	MAMMA1001296,	MAMMA1001992,	MAMMA1002033,

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	MAMMA1002428,	MAMMA1002590,	MAMMA1001186,	MAMMA1002267,	MAMMA1002322,
	MAMMA1001956,	MAMMA1002155,	NT2RP4000210,	MAMMA1002622,	NT2RP3004125,
	MAMMA1001220,	MAMMA1001683,	NT2RP3004348,	Y79AA1000214,	Y79AA1000833,
5	NT2RP4000212,	MAMMA1002230,	MAMMA1001452,	MAMMA1001620,	MAMMA1001256,
	MAMMA1001760,	NT2RP3004349,	MAMMA1001783,	MAMMA1001907,	MAMMA1002009,
	MAMMA1002545,	NT2RP4000214,	NT2RP4000728,	MAMMA1001465,	MAMMA1001154,
	MAMMA1001198,	MAMMA1001343,	MAMMA1002310,	NT2RP4000035,	NT2RP4000833,
10	MAMMA1003150,	MAMMA1002886,	NT2RP4001938,	NT2RM2000260,	MAMMA1002629,
	MAMMA1002973,	MAMMA1002721,	MAMMA1002909,	NT2RP4001100,	NT2RM1000857,
	NT2RP4000878,	MAMMA1002844,	NT2RM1000039,	NT2RP4001174,	MAMMA1002665,
	MAMMA1003047,	NT2RM1000086,	NT2RM1000260,	NT2RM1000355,	MAMMA1002701,
15	NT2RP4000918,	MAMMA1002830,	MAMMA1002970,	NT2RP4001677,	NT2RM2000422,
	MAMMA1003004,	MAMMA1002673,	MAMMA1003031,	MAMMA1002764,	MAMMA1002858,
	NT2RP4001679,	NT2RP4002888,	MAMMA1002711,	NT2RP4001276,	NT2RM1000018,
20	NT2RP4001568,	NT2RM1000883.			

Thus, characteristic features in the expression of a gene are illustrated by comparing and statistically analyzing the expression of many genes.

Analysis of disease-associated genes

Non-enzymic protein glycation reaction is believed to be a cause of a variety of chronic diabetic complications. Accordingly, genes of which expression is elevated or decreased in a glycosylated protein-specific manner in the endothelial cells are associated with diabetic complications caused by glycosylated proteins. Vascular endothelial cells are affected with glycosylated proteins present in blood. Reaction products of non-enzymic protein glycation include amadori compound (glycosylated protein) as a mildly glycosylated protein and advanced glycation endproduct as a heavily glycosylated protein. Hence, a survey was carried out for genes of which expression levels are varied depending on the presence of these glycosylated proteins in endothelial cells. The mRNAs were extracted from endothelial cells that were cultured in the presence or absence of glycosylated protein. The mRNAs were converted into radiolabeled first strand cDNAs for preparing probes. The probes were hybridized to the above-mentioned DNA array. Signal of each DNA spot was detected by BAS2000 and analyzed by ArrayGauge (Fuji Photo Film Co., Ltd.).

Advanced glycation endproduct of bovine serum albumin was prepared as follows: bovine serum albumin (BSA; Sigma) was incubated in a phosphate buffer solution containing 50 mM glucose at 37°C for 8 weeks; and the resulting brownish BSA was dialyzed against a phosphate buffer solution.

Human normal pulmonary arterial endothelial cells (Cell Applications) were cultured in an Endothelial Cell Growth Medium (Cell Applications). The culture dish (Falcon) with the cells were incubated in a CO₂ incubator (37°C, 5% CO₂, in a humid atmosphere). When the cells were grown to be confluent in the dish, 250 µg/ml of bovine serum albumin (sigma), glycosylated bovine serum albumin (Sigma) or advanced glycation endproduct of bovine serum albumin was added thereto and the cells were incubated for 33 hours. The mRNA was extracted from the cells by using a FastTrackTM 2.0 kit (Invitrogen). The labeling of hybridization probe was carried out

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by using the mRNA according to the same procedure as described above.

Table 169 shows the expression level of each cDNA in human pulmonary arterial endothelial cells cultured in a medium containing bovine serum albumin (sigma), glycated bovine serum albumin (Sigma) or advanced glycation endproduct of bovine serum albumin. Genes of which
5 expression was detected in the endothelial cell are as follows:

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	OVARC1000114,	OVARC1000133,	OVARC1000139,	OVARC1000148,	OVARC1000168,
40	OVARC1000198,	OVARC1000209,	OVARC1000240,	OVARC1000241,	OVARC1000288,
	OVARC1000321,	OVARC1000347,	OVARC1000408,	OVARC1000414,	OVARC1000420,
	OVARC1000427,	OVARC1000431,	OVARC1000437,	OVARC1000440,	OVARC1000442,
	OVARC1000443,	OVARC1000466,	OVARC1000479,	OVARC1000486,	OVARC1000526,
45	OVARC1000533,	OVARC1000556,	OVARC1000564,	OVARC1000573,	OVARC1000576,
	OVARC1000578,	OVARC1000622,	OVARC1000640,	OVARC1000649,	OVARC1000661,
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	OVARC1000846,	OVARC1000883,	OVARC1000886,	OVARC1000890,	OVARC1000891,
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	OVARC1001040,	OVARC1001051,	OVARC1001055,	OVARC1001062,	OVARC1001065,
	OVARC1001107,	OVARC1001117,	OVARC1001118,	OVARC1001154,	OVARC1001161,
55	OVARC1001162,	OVARC1001167,	OVARC1001170,	OVARC1001171,	OVARC1001173,

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	OVARC1001176,	OVARC1001180,	OVARC1001232,	OVARC1001240,	OVARC1001244,
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	OVARC1001342,	OVARC1001344,	OVARC1001357,	OVARC1001376,	OVARC1001381,
5	OVARC1001489,	OVARC1001496,	OVARC1001506,	OVARC1001542,	OVARC1001555,
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10	OVARC1001949,	OVARC1001950,	OVARC1001987,	OVARC1001989,	OVARC1002044,
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	PLACE1001185,	PLACE1001238,	PLACE1001257,	PLACE1001272,	PLACE1001280,
25	PLACE1001304,	PLACE1001311,	PLACE1001323,	PLACE1001383,	PLACE1001395,
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	PLACE1001534,	PLACE1001545,	PLACE1001551,	PLACE1001602,	PLACE1001603,
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40	PLACE1002853,	PLACE1002881,	PLACE1002968,	PLACE1002991,	PLACE1002993,
	PLACE1002996,	PLACE1003025,	PLACE1003027,	PLACE1003092,	PLACE1003100,
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45	PLACE1003353,	PLACE1003361,	PLACE1003366,	PLACE1003373,	PLACE1003420,
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	PLACE1003537,	PLACE1003566,	PLACE1003575,	PLACE1003584,	PLACE1003592,
	PLACE1003596,	PLACE1003602,	PLACE1003605,	PLACE1003611,	PLACE1003638,
50	PLACE1003704,	PLACE1003711,	PLACE1003723,	PLACE1003738,	PLACE1003760,
	PLACE1003762,	PLACE1003771,	PLACE1003783,	PLACE1003795,	PLACE1003850,
	PLACE1003870,	PLACE1003886,	PLACE1003892,	PLACE1003900,	PLACE1003915,
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55	PLACE1004242,	PLACE1004256,	PLACE1004257,	PLACE1004274,	PLACE1004277,

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5	PLACE1004629,	PLACE1004645,	PLACE1004658,	PLACE1004672,	PLACE1004674,
	PLACE1004681,	PLACE1004686,	PLACE1004716,	PLACE1004736,	PLACE1004740,
	PLACE1004751,	PLACE1004813,	PLACE1004814,	PLACE1004815,	PLACE1004824,
	PLACE1004827,	PLACE1004836,	PLACE1004885,	PLACE1004900,	PLACE1004902,
10	PLACE1004930,	PLACE1004979,	PLACE1004982,	PLACE1005027,	PLACE1005046,
	PLACE1005052,	PLACE1005055,	PLACE1005066,	PLACE1005085,	PLACE1005086,
	PLACE1005101,	PLACE1005102,	PLACE1005108,	PLACE1005128,	PLACE1005162,
	PLACE1005232,	PLACE1005243,	PLACE1005305,	PLACE1005308,	PLACE1005327,
15	PLACE1005374,	PLACE1005453,	PLACE1005467,	PLACE1005477,	PLACE1005481,
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20	PLACE1005850,	PLACE1005898,	PLACE1005934,	PLACE1006002,	PLACE1006003,
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	PLACE1006157,	PLACE1006159,	PLACE1006170,	PLACE1006288,	PLACE1006325,
	PLACE1006412,	PLACE1006438,	PLACE1006470,	PLACE1006482,	PLACE1006488,
25	PLACE1006492,	PLACE1006521,	PLACE1006540,	PLACE1006615,	PLACE1006617,
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	PLACE1006962,	PLACE1007068,	PLACE1007132,	PLACE1007274,	PLACE1007276,
30	PLACE1007286,	PLACE1007346,	PLACE1007367,	PLACE1007386,	PLACE1007450,
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	PLACE1007645,	PLACE1007677,	PLACE1007737,	PLACE1007791,	PLACE1007829,
	PLACE1007858,	PLACE1007866,	PLACE1007877,	PLACE1007908,	PLACE1007969,
35	PLACE1008129,	PLACE1008132,	PLACE1008330,	PLACE1008398,	PLACE1008401,
	PLACE1008405,	PLACE1008426,	PLACE1008455,	PLACE1008457,	PLACE1008603,
	PLACE1008629,	PLACE1008693,	PLACE1008798,	PLACE1008851,	PLACE1009060,
	PLACE1009091,	PLACE1009155,	PLACE1009166,	PLACE1009183,	PLACE1009200,
40	PLACE1009230,	PLACE1009246,	PLACE1009298,	PLACE1009319,	PLACE1009328,
	PLACE1009443,	PLACE1009468,	PLACE1009539,	PLACE1009595,	PLACE1009607,
	PLACE1009621,	PLACE1009622,	PLACE1009659,	PLACE1009763,	PLACE1009798,
	PLACE1009861,	PLACE1009879,	PLACE1009888,	PLACE1009924,	PLACE1009995,
	PLACE1009997,	PLACE1010023,	PLACE1010074,	PLACE1010076,	PLACE1010096,
45	PLACE1010105,	PLACE1010293,	PLACE1010310,	PLACE1010321,	PLACE1010329,
	PLACE1010383,	PLACE1010492,	PLACE1010522,	PLACE1010599,	PLACE1010616,
	PLACE1010624,	PLACE1010702,	PLACE1010720,	PLACE1010761,	PLACE1010771,
	PLACE1010786,	PLACE1010856,	PLACE1010857,	PLACE1010870,	PLACE1010877,
50	PLACE1010900,	PLACE1010925,	PLACE1010942,	PLACE1010947,	PLACE1010954,
	PLACE1010960,	PLACE1010965,	PLACE1011026,	PLACE1011032,	PLACE1011054,
	PLACE1011056,	PLACE1011057,	PLACE1011090,	PLACE1011109,	PLACE1011114,
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55	PLACE1011576,	PLACE1011586,	PLACE1011635,	PLACE1011646,	PLACE1011719,

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5	PLACE2000039,	PLACE2000047,	PLACE2000050,	PLACE2000062,	PLACE2000097,
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	PLACE2000170,	PLACE2000176,	PLACE2000187,	PLACE2000216,	PLACE2000235,
	PLACE2000246,	PLACE2000264,	PLACE2000302,	PLACE2000305,	PLACE2000335,
10	PLACE2000341,	PLACE2000342,	PLACE2000347,	PLACE2000366,	PLACE2000371,
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15	PLACE3000121,	PLACE3000124,	PLACE3000145,	PLACE3000147,	PLACE3000155,
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	PLACE3000254,	PLACE3000271,	PLACE3000304,	PLACE3000320,	PLACE3000331,
20	PLACE3000339,	PLACE3000341,	PLACE3000350,	PLACE3000352,	PLACE3000353,
	PLACE3000362,	PLACE3000388,	PLACE3000399,	PLACE3000400,	PLACE3000401,
	PLACE3000405,	PLACE3000425,	PLACE3000455,	PLACE3000475,	PLACE3000477,
	PLACE4000009,	PLACE4000034,	PLACE4000049,	PLACE4000063,	PLACE4000089,
25	PLACE4000100,	PLACE4000128,	PLACE4000131,	PLACE4000156,	PLACE4000211,
	PLACE4000222,	PLACE4000230,	PLACE4000233,	PLACE4000250,	PLACE4000259,
	PLACE4000320,	PLACE4000323,	PLACE4000379,	PLACE4000411,	PLACE4000431,
	PLACE4000445,	PLACE4000450,	PLACE4000465,	PLACE4000487,	PLACE4000521,
30	PLACE4000581,	SKNMC1000011,	SKNMC1000050,	SKNMC1000091,	THYRO1000017,
	THYRO1000085,	THYRO1000092,	THYRO1000132,	THYRO1000163,	THYRO1000186,
	THYRO1000187,	THYRO1000190,	THYRO1000197,	THYRO1000221,	THYRO1000241,
	THYRO1000253,	THYRO1000320,	THYRO1000394,	THYRO1000438,	THYRO1000452,
35	THYRO1000471,	THYRO1000484,	THYRO1000569,	THYRO1000602,	THYRO1000625,
	THYRO1000658,	THYRO1000676,	THYRO1000699,	THYRO1000712,	THYRO1000715,
	THYRO1000815,	THYRO1000829,	THYRO1000843,	THYRO1000855,	THYRO1000865,
	THYRO1000916,	THYRO1000974,	THYRO1000975,	THYRO1000983,	THYRO1000984,
	THYRO1000988,	THYRO1001003,	THYRO1001031,	THYRO1001093,	THYRO1001133,
40	THYRO1001173,	THYRO1001177,	THYRO1001189,	THYRO1001204,	THYRO1001213,
	THYRO1001287,	THYRO1001320,	THYRO1001321,	THYRO1001374,	THYRO1001401,
	THYRO1001405,	THYRO1001406,	THYRO1001411,	THYRO1001426,	THYRO1001480,
	THYRO1001487,	THYRO1001534,	THYRO1001537,	THYRO1001541,	THYRO1001559,
45	THYRO1001573,	THYRO1001584,	THYRO1001595,	THYRO1001602,	THYRO1001617,
	THYRO1001637,	THYRO1001656,	THYRO1001671,	THYRO1001673,	THYRO1001703,
	THYRO1001706,	THYRO1001738,	THYRO1001772,	THYRO1001793,	THYRO1001828,
	THYRO1001854,	THYRO1001907,	VESEN1000122,	Y79AA1000033,	Y79AA1000037,
50	Y79AA1000059,	Y79AA1000065,	Y79AA1000131,	Y79AA1000202,	Y79AA1000214,
	Y79AA1000231,	Y79AA1000268,	Y79AA1000313,	Y79AA1000342,	Y79AA1000346,
	Y79AA1000349,	Y79AA1000355,	Y79AA1000368,	Y79AA1000405,	Y79AA1000410,
	Y79AA1000420,	Y79AA1000469,	Y79AA1000480,	Y79AA1000538,	Y79AA1000539,
	Y79AA1000560,	Y79AA1000589,	Y79AA1000627,	Y79AA1000705,	Y79AA1000734,
55	Y79AA1000774,	Y79AA1000782,	Y79AA1000784,	Y79AA1000827,	Y79AA1000833,

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Y79AA1000850, Y79AA1000966, Y79AA1000968, Y79AA1000985, Y79AA1001061,
Y79AA1001068, Y79AA1001077, Y79AA1001078, Y79AA1001105, Y79AA1001145,
Y79AA1001211, Y79AA1001216, Y79AA1001228, Y79AA1001236, Y79AA1001299,
5 Y79AA1001394, Y79AA1001402, Y79AA1001511, Y79AA1001533, Y79AA1001548,
Y79AA1001555, Y79AA1001581, Y79AA1001585, Y79AA1001603, Y79AA1001647,
Y79AA1001665, Y79AA1001679, Y79AA1001711, Y79AA1001805, Y79AA1001827,
Y79AA1001846, Y79AA1001866, Y79AA1001875, Y79AA1001923, Y79AA1001963,
10 Y79AA1002089, Y79AA1002093, Y79AA1002115, Y79AA1002125, Y79AA1002209,
Y79AA1002211, Y79AA1002220, Y79AA1002246, Y79AA1002258, Y79AA1002311,
Y79AA1002351, Y79AA1002361, Y79AA1002472, Y79AA1002482

15

Signal ratios of EC_AGE_BSA to EC_BSA and of EC_glycated_BSA to EC_BSA were calculated for each gene. Genes with high signal ratios were selected. In the case of calculating the ratio of signal value of 40 or less to that of more than 40, such signal values were, for convenience, taken as 40 instead of the real values. When the ratio EC_AGE_BSA/EC_BSA is 2 or more, expression of the genes exhibiting such ratio is expected to be elevated due to advanced glycation endproduct of bovine serum albumin. The higher the value is, the higher the gene expression level is. When the ratio EC_AGE_BSA/EC_BSA ranges from 0.5 to 2, expression of the genes exhibiting such ratio is expected to be unaffected due to advanced glycation endproduct of bovine serum albumin. When the ratio EC_AGE_BSA/EC_BSA is less than 0.5, expression of the genes exhibiting such ratio value is expected to be decreased due to advanced glycation endproduct of bovine serum albumin. The lower the value is, the lower the gene expression level is.

Clone with EC_AGE_BSA/EC_BSA ratio of 2 or higher are as follows: HEMBA1003958, MAMMA1001256, PLACE2000411.

Clone with EC_AGE_BSA/EC_BSA ratio of 0.5 or less is as follows: MAMMA1001783.

35 These cDNAs are associated with diabetes.

When the ratio EC_glycated_BSA/EC_BSA is 2 or more, the expression level of the gene exhibiting such ratio is expected to be elevated due to glycated bovine serum albumin. The higher the value is, the higher the gene expression level is. When the ratio EC_glycated_BSA/EC_BSA ranges from 0.5 to 2, the expression level of the gene exhibiting such ratio is expected to be unaffected with glycated bovine serum albumin. When the ratio EC_glycated_BSA/EC_BSA is less than 0.5, the expression level of a gene exhibiting such ratio is expected to be decreased due to glycated bovine serum albumin. The lower the value is, the lower the gene expression level is.

Clones with EC_glycated_BSA/EC_BSA ratio of 2 or more are as follows: HEMBA1004850, MAMMA1001256, MAMMA1002132 and PLACE3000119.

50 A clone with EC_glycated_BSA/EC_BSA ratio of 0.5 or less is as follows: MAMMA1001783.

These cDNAs are also associated with diabetes.

55 Analysis of genes associated with neural cell differentiation

Genes involved in neural cell differentiation are useful for treating neurological diseases.

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It is possible that genes with varying expression levels in response to induction of cellular differentiation in neural cells are associated with neurological diseases.

5 A survey was performed for genes of which expression levels are varied in response to induction of differentiation (stimulation by retinoic acid (RA)) in cultured cells of a neural strain, NT2.

The NT2 cells were treated basically according to supplier's instruction manual. "Undifferentiated NT2 cells" means NT2 cells successively cultured in an Opti-MEM I (GIBCO-BRL; catalog No. 31985) containing 10%(v/v) fetal bovine serum and 1%(v/v) penicillin-streptomycin (GIBCO BRL). "NT2 cells cultured in the presence of retinoic acid" means the cells resulted from transferring undifferentiated NT2 cells into a retinoic acid-containing medium, which consists of D-MEM (GIBCO BRL; catalog No. 11965), 10%(v/v) fetal bovine serum, 1%(v/v) penicillin-streptomycin and 10 μ M retinoic acid (GIBCO-BRL), and the subsequent successive culture therein for 5 weeks. "NT2 cells that were cultured in the presence of retinoic acid and then further cultured in the presence of cell-division inhibitor added" means NT2 cells resulted from transferring NT2 cells cultured in the presence of retinoic acid for 5 weeks into a cell-division inhibitor-containing medium, which consisted of D-MEM(GIBCO BRL; catalog No.11965), 10%(v/v) fetal bovine serum, 1%(v/v) penicillin-streptomycin, 10 μ M retinoic acid, 10 μ M FudR (5-fluoro-2'-deoxyuridine: GIBCO BRL), 10 μ M Urd (Uridine: GIBCO BRL) and 1 μ M araC (Cytosine β -D-Arabinofuranoside: GIBCO BRL), and the subsequence successive culture for 2 weeks. Each of the cells were treated with trypsin and then harvested. Total RNAs were extracted from the cells by using S.N.A.P.^(TM) Total RNA Isolation kit (Invitrogen⁽⁹⁾). The labeling of probe used for hybridization was carried out by using 10 μ g of the total RNA according to the same methods as described above. The data were obtained in triplicate (n=3). The data of signal value representing gene expression level in the cells in the presence of stimulation for inducing differentiation were compared with those in the absence of the stimulation. The comparison was performed by statistical treatment-of two-sample t-test. Clones with significant difference in the signal distribution were selected under the condition of $p < 0.05$. In this analysis, clones with the difference can be statistically detected even when the signals were low. Accordingly, clones with signal value of 40 or less were also assessed for the selection.

Tables 170-349 show the expression level of each cDNA in undifferentiated NT2 cells, NT2 cells cultured in the presence of RA, and NT2 cells that were cultured in the presence of RA and that were further cultured in the presence of cell-division inhibitor added.

Averaged signal values (M_1, M_2) and sample variances (s_1^2, s_2^2) were calculated for each gene in each of the cells, and then, the pooled sample variances s^2 were obtained from the sample variances of the two types of cells to be compared. The t values were determined according to the following formula: $t = (M_1 - M_2) / s / (1/3 + 1/3)^{1/2}$. When the determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01 in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at $p < 0.05$ or $p < 0.01$, respectively. The tables also include the information on an increase (+) or decrease (-) in the expression level of a gene in the treated cells when the level is compared with that of untreated undifferentiated cells.

55 Clones of which expression levels increased by RA are as follows:

HEMBA1000005, HEMBA1000042, HEMBA1000046, HEMBA1000076, HEMBA1000111,
HEMBA1000141, HEMBA1000150, HEMBA1000185, HEMBA1000282, HEMBA1000304,

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	HEMBA1000307,	HEMBA1000338,	HEMBA1000357,	HEMBA1000376,	HEMBA1000387,
	HEMBA1000392,	HEMBA1000428,	HEMBA1000456,	HEMBA1000459,	HEMBA1000469,
	HEMBA1000504,	HEMBA1000508,	HEMBA1000519,	HEMBA1000540,	HEMBA1000545,
5	HEMBA1000557,	HEMBA1000563,	HEMBA1000568,	HEMBA1000575,	HEMBA1000588,
	HEMBA1000592,	HEMBA1000604,	HEMBA1000622,	HEMBA1000655,	HEMBA1000673,
	HEMBA1000682,	HEMBA1000726,	HEMBA1000727,	HEMBA1000749,	HEMBA1000769,
	HEMBA1000774,	HEMBA1000791,	HEMBA1000822,	HEMBA1000872,	HEMBA1000876,
10	HEMBA1000910,	HEMBA1000942,	HEMBA1000943,	HEMBA1000960,	
	HEMBA1000972,	HEMBA1000974,	HEMBA1000991,	HEMBA1001008,	HEMBA1001020,
	HEMBA1001043,	HEMBA1001051,	HEMBA1001060,	HEMBA1001071,	HEMBA1001077,
	HEMBA1001085,	HEMBA1001094,	HEMBA1001109,	HEMBA1001121,	HEMBA1001122,
15	HEMBA1001140,	HEMBA1001172,	HEMBA1001226,	HEMBA1001235,	HEMBA1001265,
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	Clones of which expression levels decreased by RA are as follows:				
55	HEMBA1000946,	HEMBA1003569,	HEMBA1005570,	HEMBB1000915,	NT2RM1000666,
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NT2RP3004594, NT2RP4001950, NT2RP4002408, OVARC1000431, OVARC1001942,
OVARC1001943, PLACE1003190, PLACE1004868, PLACE1005923, PLACE1007257,
PLACE1010624, Y79AA1000346.

- 5 Clones of which expression levels increase by RA/inhibitor are as follows:
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| | HEMBA1001094, | HEMBA1001122, | HEMBA1001323, | HEMBA1001361, | HEMBA1001455, |
| 10 | HEMBA1001709, | HEMBA1001746, | HEMBA1001869, | HEMBA1002084, | HEMBA1002583, |
| | HEMBA1002628, | HEMBA1002801, | HEMBA1002937, | HEMBA1003096, | HEMBA1003142, |
| | HEMBA1003229, | HEMBA1003276, | HEMBA1003309, | HEMBA1003463, | HEMBA1003597, |
| | HEMBA1003617, | HEMBA1003725, | HEMBA1003803, | HEMBA1003879, | HEMBA1003989, |
| 15 | HEMBA1004000, | HEMBA1004015, | HEMBA1004024, | HEMBA1004049, | HEMBA1004056, |
| | HEMBA1004199, | HEMBA1004248, | HEMBA1004356, | HEMBA1004554, | HEMBA1004666, |
| | HEMBA1004725, | HEMBA1004770, | HEMBA1004803, | HEMBA1004923, | HEMBA1004934, |
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| | HEMBA1005631, | HEMBA1005666, | HEMBA1005755, | HEMBA1005780, | HEMBA1006067, |
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| 30 | HEMBB1002502, | HEMBB1002614, | HEMBB1002617, | HEMBB1002692, | HEMBB1002697, |
| | MAMMA1000241, | MAMMA1000424, | MAMMA1000616, | MAMMA1000731, | MAMMA1000824, |
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| 35 | MAMMA1002941, | NT2RM1000355, | NT2RM1000725, | NT2RM1000829, | NT2RM1000850, |
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	NT2RP3001126,	NT2RP3001355,	NT2RP3001396,	NT2RP3001449,	NT2RP3001490,
15	NT2RP3001679,	NT2RP3001727,	NT2RP3001752,	NT2RP3001777,	NT2RP3001782,
	NT2RP3001799,	NT2RP3001854,	NT2RP3001989,	NT2RP3002142,	NT2RP3002248,
	NT2RP3002343,	NT2RP3002484,	NT2RP3002529,	NT2RP3002549,	NT2RP3002628,
	NT2RP3002687,	NT2RP3002688,	NT2RP3002810,	NT2RP3003032,	NT2RP3003139,
20	NT2RP3003193,	NT2RP3003203,	NT2RP3003204,	NT2RP3003210,	NT2RP3003212,
	NT2RP3003264,	NT2RP3003282,	NT2RP3003500,	NT2RP3004041,	NT2RP3004215,
	NT2RP4000147,	NT2RP4000259,	NT2RP4000360,	NT2RP4000448,	NT2RP4000524,
	NT2RP4000588,	NT2RP4000879,	NT2RP4000907,	NT2RP4000989,	NT2RP4001079,
25	NT2RP4001150,	NT2RP4001219,	NT2RP4001260,	NT2RP4001274,	NT2RP4001353,
	NT2RP4001547,	NT2RP4001677,	NT2RP4002052,	OVARC1000006,	OVARC1000092,
	OVARC1000321,	OVARC1000384,	OVARC1000408,	OVARC1000414,	OVARC1000520,
	OVARC1000526,	OVARC1000588,	OVARC1000679,	OVARC1000682,	OVARC1000769,
30	OVARC1000850,	OVARC1000862,	OVARC1000886,	OVARC1000984,	OVARC1001000,
	OVARC1001004,	OVARC1001154,	OVARC1001170,	OVARC1001173,	OVARC1001200,
	OVARC1001268,	OVARC1001376,	OVARC1001419,	OVARC1001425,	OVARC1001476,
	OVARC1001480,	OVARC1001542,	OVARC1001873,	OVARC1001928,	OVARC1001987,
35	OVARC1002066,	OVARC1002082,	OVARC1002112,	OVARC1002127,	
	PLACE1000014,	PLACE1000048,	PLACE1000184,	PLACE1000185,	PLACE1000246,
	PLACE1000292,	PLACE1000332,	PLACE1000347,	PLACE1000564,	PLACE1000656,
	PLACE1000712,	PLACE1001000,	PLACE1001168,	PLACE1001185,	PLACE1001241,
40	PLACE1001294,	PLACE1001311,	PLACE1001395,	PLACE1001570,	PLACE1001608,
	PLACE1001610,	PLACE1001716,	PLACE1001746,	PLACE1001817,	PLACE1001821,
	PLACE1001844,	PLACE1001897,	PLACE1002066,	PLACE1002119,	PLACE1002157,
	PLACE1002205,	PLACE1002256,	PLACE1002259,	PLACE1002399,	PLACE1002438,
45	PLACE1002474,	PLACE1002477,	PLACE1002500,	PLACE1002514,	PLACE1002578,
	PLACE1002815,	PLACE1002851,	PLACE1002968,	PLACE1003108,	PLACE1003174,
	PLACE1003200,	PLACE1003238,	PLACE1003256,	PLACE1003334,	PLACE1003342,
	PLACE1003516,	PLACE1003521,	PLACE1003537,	PLACE1003592,	PLACE1003596,
50	PLACE1003723,	PLACE1003760,	PLACE1003771,	PLACE1003783,	PLACE1003795,
	PLACE1003892,	PLACE1003968,	PLACE1004103,	PLACE1004256,	PLACE1004405,
	PLACE1004460,	PLACE1004506,	PLACE1004629,	PLACE1004674,	PLACE1004813,
	PLACE1004979,	PLACE1005066,	PLACE1005101,	PLACE1005102,	PLACE1005128,
55	PLACE1005181,	PLACE1005287,	PLACE1005305,	PLACE1005327,	PLACE1005477,
	PLACE1005595,	PLACE1005603,	PLACE1005666,	PLACE1005804,	PLACE1005884,
	PLACE1005934,	PLACE1006076,	PLACE1006119,	PLACE1006159,	PLACE1006164,

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	PLACE1006170,	PLACE1006382,	PLACE1006492,	PLACE1006629,	PLACE1006704,
	PLACE1006731,	PLACE1006760,	PLACE1006779,	PLACE1006795,	PLACE1006805,
	PLACE1006962,	PLACE1007045,	PLACE1007111,	PLACE1007282,	PLACE1007386,
5	PLACE1007416,	PLACE1007484,	PLACE1007544,	PLACE1007645,	PLACE1007743,
	PLACE1007746,	PLACE1007807,	PLACE1007858,	PLACE1008002,	PLACE1008181,
	PLACE1008273,	PLACE1008368,	PLACE1008405,	PLACE1008532,	
	PLACE1008568,	PLACE1008625,	PLACE1008696,	PLACE1008867,	PLACE1009027,
10	PLACE1009039,	PLACE1009045,	PLACE1009110,	PLACE1009298,	PLACE1009328,
	PLACE1009581,	PLACE1009621,	PLACE1009622,	PLACE1009637,	PLACE1009925,
	PLACE1009935,	PLACE1010089,	PLACE1010106,	PLACE1010152,	PLACE1010274,
	PLACE1010491,	PLACE1010629,	PLACE1010630,	PLACE1010714,	PLACE1010739,
15	PLACE1010891,	PLACE1010896,	PLACE1010925,	PLACE1010965,	PLACE1011026,
	PLACE1011046,	PLACE1011214,	PLACE1011399,	PLACE1011433,	PLACE1011492,
	PLACE1011641,	PLACE1011649,	PLACE1011719,	PLACE1011762,	PLACE1011858,
	PLACE1011923,	PLACE2000014,	PLACE2000039,	PLACE2000216,	PLACE2000302,
20	PLACE2000317,	PLACE2000342,	PLACE2000347,	PLACE2000379,	PLACE3000121,
	PLACE3000124,	PLACE3000160,	PLACE3000242,	PLACE3000271,	PLACE3000353,
	PLACE3000362,	PLACE3000365,	PLACE3000400,	PLACE3000401,	PLACE4000034,
	PLACE4000089,	PLACE4000522,	PLACE4000558,		
25	SKNMC1000050,	THYRO1000040,	THYRO1000197,	THYRO1000241,	THYRO1000327,
	THYRO1000394,	THYRO1000488,	THYRO1000501,	THYRO1000585,	THYRO1000596,
	THYRO1000625,	THYRO1000805,	THYRO1000934,	THYRO1001133,	THYRO1001134,
	THYRO1001173,	THYRO1001213,	THYRO1001262,	THYRO1001290,	THYRO1001721,
30	Y79AA1000037,	Y79AA1000800,	Y79AA1000976,	Y79AA1001078,	Y79AA1001228,
	Y79AA1001299,	Y79AA1001402,	Y79AA1001585,	Y79AA1001696,	Y79AA1001711,
	Y79AA1001827,	Y79AA1001875,	Y79AA1002027,	Y79AA1002211,	Y79AA1002234,
	Y79AA1002258,				
35	Clones of which expression levels decrease by RA/inhibitor are as follows:				
	HEMBA1000012,	HEMBA1000501,	HEMBA1000946,	HEMBA1003220,	HEMBA1003403,
	HEMBA1003569,	HEMBA1003591,	HEMBA1003926,	HEMBA1004168,	HEMBA1004507,
	HEMBA1005009,	HEMBA1005296,	HEMBA1005528,	HEMBA1005570,	HEMBA1006467,
40	HEMBA1006486,	HEMBA1006492,	HEMBA1007322,	HEMBA1000055,	HEMBA1000244,
	HEMBA1001665,	MAMMA1000684,	MAMMA1001139,	MAMMA1001743,	NT2RM1000257,
	NT2RM1000318,	NT2RM1000539,	NT2RM1000666,	NT2RM2000092,	NT2RM2000192,
	NT2RM2000371,	NT2RM2000594,	NT2RM4000511,	NT2RM4001140,	NT2RM4001754,
45	NT2RM4001905,	NT2RM4001940,	NT2RM4002593,	NT2RP1000086,	NT2RP1000439,
	NT2RP1001073,	NT2RP2000098,	NT2RP2000965,	NT2RP2001397,	NT2RP2002047,
	NT2RP2004226,	NT2RP2004396,	NT2RP2004655,	NT2RP2005126,	NT2RP2005464,
	NT2RP2005712,	NT2RP2005859,	NT2RP2005890,	NT2RP3000980,	NT2RP3001383,
50	NT2RP3001621,	NT2RP3002081,	NT2RP3002181,	NT2RP3002244,	NT2RP3002590,
	NT2RP3003059,	NT2RP3004258,	NT2RP3004378,	NT2RP3004527,	NT2RP3004594,
	NT2RP4001760,	NT2RP4001950,	NT2RP4002047,	NT2RP4002408,	NT2RP5003459,
55	OVARC1000004,	OVARC1000035,	OVARC1000431,	OVARC1001051,	OVARC1001129,
	OVARC1001176,	OVARC1001261,	OVARC1001342,	OVARC1001942,	OVARC1001943,
	PLACE1002171,	PLACE1002465,	PLACE1003190,	PLACE1003375,	PLACE1004128,
	PLACE1005026,	PLACE1005876,	PLACE1005923,	PLACE1007257,	PLACE1007375,

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PLACE1007507, PLACE1008941, PLACE1010624, PLACE1011090, PLACE1011219,
THYRO1000270, Y79AA1000346, Y79AA1001541.

Clones of which expression levels increase in the presence of both RA and RA/inhibitor are as follows:

5	HEMBA1000046,	HEMBA1000307,	HEMBA1000504,	HEMBA1000588,	HEMBA1000682,
	HEMBA1000726,	HEMBA1000943,	HEMBA1001071,	HEMBA1001094,	HEMBA1001122,
	HEMBA1001323,	HEMBA1001361,	HEMBA1001455,	HEMBA1001869,	HEMBA1002084,
10	HEMBA1002583,	HEMBA1002628,	HEMBA1003096,	HEMBA1003142,	HEMBA1003276,
	HEMBA1003309,	HEMBA1003463,	HEMBA1003597,	HEMBA1003617,	HEMBA1003725,
	HEMBA1003803,	HEMBA1003879,	HEMBA1003989,	HEMBA1004000,	HEMBA1004015,
	HEMBA1004024,	HEMBA1004049,	HEMBA1004056,	HEMBA1004199,	HEMBA1004248,
15	HEMBA1004356,	HEMBA1004666,	HEMBA1004770,	HEMBA1004803,	HEMBA1004923,
	HEMBA1004934,	HEMBA1004954,	HEMBA1005039,	HEMBA1005075,	HEMBA1005113,
	HEMBA1005219,	HEMBA1005232,	HEMBA1005251,	HEMBA1005304,	HEMBA1005367,
	HEMBA1005410,	HEMBA1005411,	HEMBA1005548,	HEMBA1005581,	HEMBA1005631,
20	HEMBA1005666,	HEMBA1005780,	HEMBA1006485,	HEMBA1006559,	HEMBA1006579,
	HEMBA1006754,	HEMBB1000059,	HEMBB1000575,	HEMBB1000709,	HEMBB1000848,
	HEMBB1000985,	HEMBB1001117,	HEMBB1001210,	HEMBB1001394,	HEMBB1001668,
	HEMBB1001695,	HEMBB1002049,	HEMBB1002254,	HEMBB1002266,	HEMBB1002371,
25	HEMBB1002614,	HEMBB1002617,	HEMBB1002697,	MAMMA1000241,	MAMMA1000424,
	MAMMA1000616,	MAMMA1000731,	MAMMA1000824,	MAMMA1001038,	MAMMA1001243,
	MAMMA1002769,	MAMMA1002871,	MAMMA1002941,		
	NT2RM1000725,	NT2RM1000829,	NT2RM2000504,	NT2RM2000635,	NT2RM2000821,
30	NT2RM2001582,	NT2RM2001592,	NT2RM2001632,	NT2RM2001648,	NT2RM2001671,
	NT2RM2001695,	NT2RM2001879,	NT2RM4000290,	NT2RM4000425,	NT2RM4000471,
	NT2RM4000531,	NT2RM4000852,	NT2RM4001047,	NT2RM4001454,	NT2RM4001557,
	NT2RM4001566,	NT2RM4001582,	NT2RM4001953,	NT2RM4002409,	NT2RM4002558,
35	NT2RM4002594,	NT2RP1000259,	NT2RP1000418,	NT2RP1000574,	NT2RP1000782,
	NT2RP1000856,	NT2RP1000943,	NT2RP1000988,	NT2RP1001013,	NT2RP1001173,
	NT2RP1001546,	NT2RP2000091,	NT2RP2000208,	NT2RP2000274,	NT2RP2000329,
	NT2RP2000369,	NT2RP2000634,	NT2RP2000987,	NT2RP2001277,	NT2RP2001290,
40	NT2RP2001366,	NT2RP2001423,	NT2RP2001436,	NT2RP2001467,	NT2RP2001506,
	NT2RP2001601,	NT2RP2001926,	NT2RP2001985,	NT2RP2002041,	NT2RP2002046,
	NT2RP2002078,	NT2RP2002124,	NT2RP2002193,	NT2RP2002312,	NT2RP2002316,
	NT2RP2002426,	NT2RP2002457,	NT2RP2002475,	NT2RP2002520,	NT2RP2002595,
45	NT2RP2002672,	NT2RP2002701,	NT2RP2003099,	NT2RP2003137,	NT2RP2003206,
	NT2RP2003230,	NT2RP2003272,	NT2RP2003280,	NT2RP2003393,	NT2RP2003445,
	NT2RP2003456,	NT2RP2003596,	NT2RP2003871,	NT2RP2004681,	NT2RP2004743,
	NT2RP2004775,	NT2RP2004933,	NT2RP2004967,	NT2RP2005003,	NT2RP2005289,
50	NT2RP2005453,	NT2RP2005555,	NT2RP2005767,	NT2RP2005853,	NT2RP2006043,
	NT2RP2006393,	NT2RP2006436,	NT2RP2006441,	NT2RP2006467,	NT2RP2006565,
	NT2RP3000359,	NT2RP3000366,	NT2RP3000403,	NT2RP3000418,	NT2RP3000441,
	NT2RP3000561,	NT2RP3000759,	NT2RP3001007,	NT2RP3001126,	NT2RP3001355,
55	NT2RP3001396,	NT2RP3001449,	NT2RP3001490,	NT2RP3001679,	NT2RP3001752,
	NT2RP3001782,	NT2RP3001799,	NT2RP3001989,	NT2RP3002142,	NT2RP3002248,
	NT2RP3002343,	NT2RP3002484,	NT2RP3002529,	NT2RP3002549,	NT2RP3002687,

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NT2RP3003032, NT2RP3003139, NT2RP3003193, NT2RP3003204, NT2RP3003210,
 NT2RP3003212, NT2RP3003264, NT2RP3003282, NT2RP3003500, NT2RP3004041,
 NT2RP3004215, NT2RP4000147, NT2RP4000259, NT2RP4000360, NT2RP4000448,
 5 NT2RP4000524, NT2RP4001079, NT2RP4001150, NT2RP4001274,
 NT2RP4001353, NT2RP4001547, NT2RP4001677, OVARC1000092, OVARC1000321,
 OVARC1000384, OVARC1000408, OVARC1000414, OVARC1000520, OVARC1000526,
 OVARC1000588, OVARC1000679, OVARC1000682, OVARC1000769, OVARC1000862,
 10 OVARC1000984, OVARC1001000, OVARC1001004, OVARC1001154, OVARC1001170,
 OVARC1001173, OVARC1001200, OVARC1001268, OVARC1001376, OVARC1001476,
 OVARC1001542, OVARC1001873, OVARC1001987, OVARC1002082,
 PLACE1000014, PLACE1000048, PLACE1000184, PLACE1000246, PLACE1000292,
 15 PLACE1000332, PLACE1000347, PLACE1000712, PLACE1001000, PLACE1001294,
 PLACE1001311, PLACE1001395, PLACE1001570, PLACE1001608, PLACE1001610,
 PLACE1001746, PLACE1001821, PLACE1001844, PLACE1001897, PLACE1002066,
 PLACE1002119, PLACE1002157, PLACE1002205, PLACE1002256, PLACE1002259,
 20 PLACE1002438, PLACE1002474, PLACE1002477, PLACE1002500, PLACE1002578,
 PLACE1002815, PLACE1002851, PLACE1002968, PLACE1003108, PLACE1003174,
 PLACE1003200, PLACE1003256, PLACE1003334, PLACE1003516, PLACE1003592,
 PLACE1003723, PLACE1003760, PLACE1003771, PLACE1003795, PLACE1003892,
 25 PLACE1003968, PLACE1004103, PLACE1004256, PLACE1004629, PLACE1004979,
 PLACE1005102, PLACE1005128, PLACE1005305, PLACE1005477, PLACE1005666,
 PLACE1005804, PLACE1005934, PLACE1006076, PLACE1006119, PLACE1006159,
 PLACE1006164, PLACE1006170, PLACE1006492, PLACE1006629, PLACE1006704,
 30 PLACE1006760, PLACE1006795, PLACE1006962, PLACE1007045, PLACE1007386,
 PLACE1007416, PLACE1007484, PLACE1007544, PLACE1007645, PLACE1007743,
 PLACE1007807, PLACE1007858, PLACE1008002, PLACE1008273, PLACE1008368,
 PLACE1008532, PLACE1008568, PLACE1008696, PLACE1008867, PLACE1009027,
 35 PLACE1009039, PLACE1009298, PLACE1009328, PLACE1009621, PLACE1009637,
 PLACE1010089, PLACE1010106, PLACE1010152, PLACE1010491, PLACE1010630,
 PLACE1010739, PLACE1010896, PLACE1010925, PLACE1010965, PLACE1011046,
 PLACE1011214, PLACE1011433, PLACE1011719, PLACE1011762, PLACE2000039,
 40 PLACE2000216, PLACE2000302, PLACE2000342, PLACE2000347, PLACE2000379,
 PLACE3000121, PLACE3000124, PLACE3000242, PLACE3000271, PLACE3000362,
 PLACE3000365, PLACE3000400, PLACE3000401, PLACE4000034, PLACE4000089,
 PLACE4000522, PLACE4000558, THYRO1000197, THYRO1000241, THYRO1000327,
 45 THYRO1000394, THYRO1000488, THYRO1000585, THYRO1000625, THYRO1000805,
 THYRO1000934, THYRO1001133, THYRO1001173, THYRO1001213, THYRO1001262,
 THYRO1001290, Y79AA1000800, Y79AA1000976, Y79AA1001585, Y79AA1001696,
 Y79AA1001711, Y79AA1002258.
 50 Clones of which expression levels decrease in the presence of both RA and RA/inhibitor are
 as follows: HEMBA1000946, HEMBA1003569, HEMBA1005570, NT2RM1000666,
 NT2RM2000092, NT2RM2000594, NT2RM4001754, NT2RM4001905, NT2RP2002047,
 NT2RP3000980, NT2RP3002081, NT2RP3004594, NT2RP4001950, NT2RP4002408,
 55 OVARC1000431, OVARC1001942, OVARC1001943, PLACE1003190, PLACE1005923,
 PLACE1007257, PLACE1010624, Y79AA1000346.

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These are neurological disease-associated clones.

Analysis of rheumatoid arthritis-associated genes

5

The onset of rheumatoid arthritis is thought to be involved in the proliferation of synovial cells covering inner surfaces of joint cavity and in inflammatory reaction resulted from the action of cytokines produced by leukocytes infiltrating into the joint synovial tissues (Rheumatism Information Center, <http://www.rheuma-net.or.jp/>). Recent studies have also revealed that tissue necrosis factor (TNF)- α participates in the onset (Current opinion in immunology 1999; 11, 657-662). When the expression of a gene exhibits responsiveness to the action of TNF on synovial cells, the gene is considered to be involved in rheumatoid arthritis.

15

A survey was performed for genes of which expression levels are varied in response to TNF- α in the primary cell culture of synovial tissue. The primary cultured cells of the smooth muscle (Cell Applications) were grown to be confluent in a culture dish, and then, human TNF- α (Boehringer-Mannheim) was added at a final concentration of 10 ng/ml thereto. The culture was further continued for 24 hours.

20

Total RNA was extracted from the cells by using S.N.A.P.^(TM) Total RNA Isolation kit (Invitrogen). The labeling of probe used for hybridization was carried out by using 10 μ g of the total RNA according to the same methods as described above. The data were obtained in triplicate (n=3). The data of signal value representing gene expression level in the cells in the presence of TNF stimulation were compared with those in the absence of the stimulation. The comparison was performed by statistical treatment of two-sample t-test. Clones with significant difference in the signal distribution were selected under the condition of $p < 0.05$.

25

In this analysis,

30

clones with the difference can be statistically detected even when the signals were low.

Accordingly, clones with signal value of 40 or less were also assessed for the selection.

35

Table 352 shows the expression level of each cDNA in synovial cells cultured in the absence or presence of TNF.

Averaged signal values (M_1 , M_2) and sample variances (s_1^2 , s_2^2) for each gene were calculated in each of the cells, and then, the pooled sample variances s^2 were obtained from the sample variances of the two types of cells to be compared. The t-values were determined according to the following formula: $t = (M_1 - M_2) / s / (1/3 + 1/3)^{1/2}$. When the determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01 in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at $p < 0.05$ or $p < 0.01$, respectively.

45

The tables also include the information of an increase (+) or decrease (-) in the expression level of a gene in the stimulated cells when the level is compared with that of unstimulated cells.

Clones of which expression levels are elevated by TNF- α are as follows:

50

HEMBA1000005,	HEMBA1000012,	HEMBA1000020,	HEMBA1000046,	HEMBA1000076,
HEMBA1000111,	HEMBA1000168,	HEMBA1000185,	HEMBA1000201,	HEMBA1000231,
HEMBA1000243,	HEMBA1000280,	HEMBA1000282,	HEMBA1000304,	HEMBA1000307,
HEMBA1000327,	HEMBA1000356,	HEMBA1000376,	HEMBA1000387,	HEMBA1000390,
55 HEMBA1000418,	HEMBA1000460,	HEMBA1000491,	HEMBA1000501,	HEMBA1000518,
HEMBA1000519,	HEMBA1000520,	HEMBA1000531,	HEMBA1000534,	HEMBA1000542,
HEMBA1000545,	HEMBA1000591,	HEMBA1000592,	HEMBA1000594,	HEMBA1000636,

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	HEMBA1000655,	HEMBA1000657,	HEMBA1000673,	HEMBA1000682,	HEMBA1000686,
	HEMBA1000722,	HEMBA1000726,	HEMBA1000827,	HEMBA1000870,	HEMBA1000918,
	HEMBA1000971,	HEMBA1000974,	HEMBA1000986,	HEMBA1001019,	HEMBA1001043,
5	HEMBA1001051,	HEMBA1001059,	HEMBA1001060,	HEMBA1001071,	HEMBA1001080,
	HEMBA1001109,	HEMBA1001140,	HEMBA1001172,	HEMBA1001196,	HEMBA1001213,
	HEMBA1001226,	HEMBA1001281,	HEMBA1001299,	HEMBA1001302,	HEMBA1001303,
	HEMBA1001323,	HEMBA1001326,	HEMBA1001327,	HEMBA1001330,	HEMBA1001351,
10	HEMBA1001407,	HEMBA1001411,	HEMBA1001446,	HEMBA1001454,	HEMBA1001569,
	HEMBA1001647,	HEMBA1001714,	HEMBA1001800,	HEMBA1001804,	HEMBA1001809,
	HEMBA1001888,	HEMBA1001912,	HEMBA1001921,	HEMBA1001967,	
	HEMBA1002084,	HEMBA1002161,	HEMBA1002166,	HEMBA1002241,	HEMBA1002337,
15	HEMBA1002363,	HEMBA1002389,	HEMBA1002458,	HEMBA1002460,	HEMBA1002469,
	HEMBA1002538,	HEMBA1002542,	HEMBA1002547,	HEMBA1002609,	HEMBA1002624,
	HEMBA1002659,	HEMBA1002750,	HEMBA1002770,	HEMBA1002779,	HEMBA1002810,
	HEMBA1002816,	HEMBA1002818,	HEMBA1002850,	HEMBA1002863,	HEMBA1003021,
20	HEMBA1003033,	HEMBA1003078,	HEMBA1003166,	HEMBA1003202,	HEMBA1003204,
	HEMBA1003229,	HEMBA1003235,	HEMBA1003276,	HEMBA1003286,	HEMBA1003296,
	HEMBA1003370,	HEMBA1003376,	HEMBA1003403,	HEMBA1003418,	HEMBA1003433,
	HEMBA1003447,	HEMBA1003560,	HEMBA1003569,	HEMBA1003571,	HEMBA1003591,
25	HEMBA1003597,	HEMBA1003598,	HEMBA1003621,	HEMBA1003656,	HEMBA1003662,
	HEMBA1003680,	HEMBA1003715,	HEMBA1003725,	HEMBA1003729,	HEMBA1003733,
	HEMBA1003742,	HEMBA1003773,	HEMBA1003783,	HEMBA1003950,	HEMBA1004012,
	HEMBA1004015,	HEMBA1004048,	HEMBA1004074,	HEMBA1004086,	HEMBA1004111,
30	HEMBA1004131,	HEMBA1004202,	HEMBA1004203,	HEMBA1004207,	HEMBA1004248,
	HEMBA1004274,	HEMBA1004321,	HEMBA1004330,	HEMBA1004356,	HEMBA1004366,
	HEMBA1004405,	HEMBA1004408,	HEMBA1004429,	HEMBA1004499,	HEMBA1004507,
	HEMBA1004509,	HEMBA1004542,	HEMBA1004596,	HEMBA1004604,	HEMBA1004776,
35	HEMBA1004889,	HEMBA1004934,	HEMBA1004978,	HEMBA1005019,	HEMBA1005047,
	HEMBA1005206,	HEMBA1005219,	HEMBA1005274,	HEMBA1005331,	HEMBA1005338,
	HEMBA1005394,	HEMBA1005423,	HEMBA1005576,	HEMBA1005732,	HEMBA1005746,
	HEMBA1006091,	HEMBA1006142,	HEMBA1006173,	HEMBA1006198,	HEMBA1006253,
40	HEMBA1006268,	HEMBA1006309,	HEMBA1006377,	HEMBA1006474,	HEMBA1006486,
	HEMBA1006492,	HEMBA1006502,	HEMBA1006535,	HEMBA1006579,	HEMBA1006648,
	HEMBA1006659,	HEMBA1006885,	HEMBA1006929,	HEMBA1006941,	HEMBA1007078,
	HEMBA1007080,	HEMBA1007121,	HEMBA1007194,	HEMBA1007300,	HEMBA1007301,
45	HEMBA1007322,	HEMBA1000036,	HEMBA1000044,	HEMBA1000089,	HEMBA1000215,
	HEMBA1000217,	HEMBA1000272,	HEMBA1000420,	HEMBA1000591,	HEMBA1000593,
	HEMBA1000631,	HEMBA1000835,	HEMBA1000887,	HEMBA1000908,	HEMBA1000975,
	HEMBA1000985,	HEMBA1001011,	HEMBA1001014,	HEMBA1001112,	HEMBA1001133,
50	HEMBA1001331,	HEMBA1001337,	HEMBA1001366,	HEMBA1001367,	HEMBA1001384,
	HEMBA1001394,	HEMBA1001429,	HEMBA1001463,	HEMBA1001619,	HEMBA1001684,
	HEMBA1001706,	HEMBA1001753,	HEMBA1001797,	HEMBA1001802,	HEMBA1001812,
	HEMBA1001874,	HEMBA1001910,	HEMBA1001915,	HEMBA1001973,	HEMBA1001983,
55	HEMBA1001990,	HEMBA1002190,	HEMBA1002193,	HEMBA1002249,	HEMBA1002329,
	HEMBA1002342,	HEMBA1002371,	HEMBA1002409,	HEMBA1002442,	HEMBA1002489,
	HEMBA1002492,	HEMBA1002520,	HEMBA1002534,	HEMBA1002596,	HEMBA1002664,

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	HEMBB1002692,	HEMBB1002697,	HEMBB1002705,	MAMMA1000092,	MAMMA1000155,
	MAMMA1000163,	MAMMA1000173,	MAMMA1000175,	MAMMA1000227,	MAMMA1000241,
	MAMMA1000257,	MAMMA1000264,	MAMMA1000266,	MAMMA1000270,	MAMMA1000307,
5	MAMMA1000410,	MAMMA1000413,	MAMMA1000416,	MAMMA1000421,	MAMMA1000472,
	MAMMA1000501,	MAMMA1000605,	MAMMA1000643,	MAMMA1000670,	MAMMA1000684,
	MAMMA1000696,	MAMMA1000732,	MAMMA1000752,	MAMMA1000802,	MAMMA1000824,
	MAMMA1000905,	MAMMA1000921,	MAMMA1000931,	MAMMA1000957,	MAMMA1000962,
10	MAMMA1000998,	MAMMA1001008,	MAMMA1001050,	MAMMA1001074,	MAMMA1001078,
	MAMMA1001292,	MAMMA1001397,	MAMMA1001476,	MAMMA1001743,	MAMMA1001744,
	MAMMA1001754,	MAMMA1001760,	MAMMA1001785,	MAMMA1001858,	MAMMA1001908,
	MAMMA1002236,	MAMMA1002267,	MAMMA1002292,	MAMMA1002311,	MAMMA1002322,
15	MAMMA1002359,	MAMMA1002362,	MAMMA1002485,	MAMMA1002494,	MAMMA1002597,
	MAMMA1002598,	MAMMA1002665,	MAMMA1002671,	MAMMA1002684,	MAMMA1002748,
	MAMMA1002775,	MAMMA1002830,	MAMMA1002858,	MAMMA1002868,	MAMMA1002886,
	MAMMA1002887,	MAMMA1002892,	MAMMA1002909,	MAMMA1002937,	MAMMA1002947,
20	MAMMA1002964,	MAMMA1002970,	MAMMA1003013,	MAMMA1003150,	NT2RM1000039,
	NT2RM1000062,	NT2RM1000080,	NT2RM1000086,	NT2RM1000127,	NT2RM1000132,
	NT2RM1000187,	NT2RM1000199,	NT2RM1000244,	NT2RM1000256,	NT2RM1000272,
	NT2RM1000318,	NT2RM1000354,	NT2RM1000377,	NT2RM1000430,	NT2RM1000499,
25	NT2RM1000539,	NT2RM1000553,	NT2RM1000563,	NT2RM1000699,	NT2RM1000742,
	NT2RM1000826,	NT2RM1000829,	NT2RM1000833,	NT2RM1000882,	NT2RM1000898,
	NT2RM1000905,	NT2RM1001092,	NT2RM2000013,	NT2RM2000032,	NT2RM2000042,
	NT2RM2000101,	NT2RM2000124,	NT2RM2000192,	NT2RM2000259,	NT2RM2000260,
30	NT2RM2000363,	NT2RM2000368,	NT2RM2000402,	NT2RM2000452,	NT2RM2000952,
	NT2RM2001221,	NT2RM2002014,	NT2RM2002030,	NT2RM4000156,	NT2RM4000349,
	NT2RM4000395,	NT2RM4000457,	NT2RM4000511,	NT2RM4000514,	NT2RM4000698,
	NT2RM4000764,	NT2RM4001016,	NT2RM4001084,	NT2RM4001594,	NT2RM4001629,
35	NT2RM4001662,	NT2RM4001841,	NT2RM4002093,	NT2RM4002109,	NT2RM4002145,
	NT2RM4002189,	NT2RM4002194,	NT2RM4002226,	NT2RP1000170,	NT2RP1000439,
	NT2RP1000478,	NT2RP1000513,	NT2RP1000701,	NT2RP1000856,	NT2RP1001361,
	NT2RP2000097,	NT2RP2000239,	NT2RP2000288,	NT2RP2000328,	NT2RP2000329,
40	NT2RP2000369,	NT2RP2000422,	NT2RP2000842,	NT2RP2000965,	NT2RP2001245,
	NT2RP2001440,	NT2RP2001560,	NT2RP2001634,	NT2RP2001663,	NT2RP2001677,
	NT2RP2001762,	NT2RP2002270,	NT2RP2002312,	NT2RP2002316,	NT2RP2002333,
	NT2RP2002706,	NT2RP2002925,	NT2RP2002959,	NT2RP2002987,	NT2RP2003125,
45	NT2RP2003137,	NT2RP2003237,	NT2RP2003272,	NT2RP2003596,	NT2RP2003604,
	NT2RP2003643,	NT2RP2003968,	NT2RP2003976,	NT2RP2004194,	NT2RP2004321,
	NT2RP2005037,	NT2RP2005140,	NT2RP2005204,	NT2RP2005293,	NT2RP2005457,
	NT2RP2005555,	NT2RP2005600,	NT2RP2005701,	NT2RP2005719,	NT2RP2005722,
50	NT2RP2005773,	NT2RP2005890,	NT2RP2006023,	NT2RP2006071,	NT2RP3000186,
	NT2RP3000341,	NT2RP3000599,	NT2RP3000632,	NT2RP3000644,	NT2RP3000852,
	NT2RP3000968,	NT2RP3001096,	NT2RP3001109,	NT2RP3001126,	NT2RP3001147,
	NT2RP3001449,	NT2RP3001529,	NT2RP3001753,	NT2RP3001854,	NT2RP3001915,
55	NT2RP3001969,	NT2RP3002081,	NT2RP3002142,	NT2RP3002399,	NT2RP3002590,
	NT2RP3002603,	NT2RP3002810,	NT2RP3002876,	NT2RP3003311,	NT2RP3003330,
	NT2RP3003672,	NT2RP3004209,	NT2RP3004378,	NT2RP4000078,	NT2RP4000541,

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NT2RP4000588, NT2RP4001219, NT2RP4001228, NT2RP4001276, NT2RP4001507,
 NT2RP4002047, NT2RP5003459, NT2RP5003492, OVARC1000085, OVARC1000087,
 OVARC1000106, OVARC1000151, OVARC1000198, OVARC1000431, OVARC1000440,
 5 OVARC1000564, OVARC1000605, OVARC1000679, OVARC1000883, OVARC1000912,
 OVARC1000960, OVARC1000971, OVARC1001038, OVARC1001055, OVARC1001085,
 OVARC1001129, OVARC1001167, OVARC1001339, OVARC1001425, OVARC1001745,
 OVARC1001762, OVARC1001766, OVARC1001942, OVARC1002044, OVARC1002138,
 10 PLACE1000004, PLACE1000005, PLACE1000420, PLACE1000547, PLACE1000562,
 PLACE1000653, PLACE1001168, PLACE1001311, PLACE1001377, PLACE1001920,
 PLACE1001983, PLACE1002066, PLACE1002072, PLACE1002140, PLACE1002171,
 PLACE1002319, PLACE1002474, PLACE1002499, PLACE1002532, PLACE1002665,
 15 PLACE1003025, PLACE1003145, PLACE1003361, PLACE1003605, PLACE1003704,
 PLACE1003783, PLACE1003885, PLACE1004405, PLACE1004629, PLACE1004686,
 PLACE1004930, PLACE1005066, PLACE1006077, PLACE1005630, PLACE1005876,
 PLACE1006143, PLACE1006325, PLACE1006488, PLACE1006805, PLACE1006829,
 20 PLACE1007286, PLACE1007858, PLACE1008201, PLACE1009045, PLACE1009113,
 PLACE1009621, PLACE1010106, PLACE1010310, PLACE1010622, PLACE1010944,
 PLACE1010965, PLACE1011185, PLACE1011332, PLACE1011635, PLACE1011646,
 PLACE1011725, PLACE2000014, PLACE2000264, PLACE2000394, PLACE2000419,
 25 PLACE3000160, PLACE3000220, PLACE3000254, PLACE3000271, PLACE3000339,
 PLACE3000341, PLACE3000350, PLACE3000353, PLACE3000401, PLACE4000300,
 SKNMC1000091, THYRO1000855, THYRO1001559, Y79AA1000065, Y79AA1000202,
 Y79AA1000214, Y79AA1000346, Y79AA1000784, Y79AA1000833, Y79AA1000968,
 30 Y79AA1001555, Y79AA1002220.

Clones of which expression levels decrease by TNF- α are as follows:

HEMBA1002150, HEMBB1000240, NT2RM2000469, NT2RM2000984, NT2RM2001688, _
 NT2RM4000290, NT2RM4000496, NT2RM4000590, NT2RM4001047, NT2RM4001582,
 35 NT2RM4001611, NT2RM4001650, NT2RM4002075, NT2RM4002128, NT2RP1000174,
 NT2RP1000243, NT2RP1000581, NT2RP1000688, NT2RP1000767, NT2RP1000825,
 NT2RP1001185, NT2RP1001286, NT2RP1001432, NT2RP1001457, NT2RP2000001,
 NT2RP2000248, NT2RP2000841, NT2RP2001813, NT2RP2002137, NT2RP2002928,
 40 NT2RP2003517, NT2RP2003559, NT2RP2003564, NT2RP2004933, NT2RP2005038,
 NT2RP2006365, NT2RP3000072, NT2RP3000320, NT2RP3000484, NT2RP3000980,
 NT2RP3001111, NT2RP3001420, NT2RP3001495, NT2RP3002056, NT2RP3002057,
 NT2RP3002545, NT2RP3002713, NT2RP3002799, NT2RP3002869, NT2RP3002953,
 45 NT2RP3002955, NT2RP3003282, NT2RP3003290, NT2RP3003384, NT2RP3003385,
 NT2RP3003870, NT2RP3004207, NT2RP3004262, NT2RP3004527, NT2RP4000500,
 NT2RP4000524, NT2RP4000787, NT2RP4000927, NT2RP4000955, NT2RP4000989,
 NT2RP4001442, NT2RP4001638, NT2RP4001950, NT2RP4002888, NT2RP5003524,
 50 OVARC1001270, PLACE1000246, PLACE1002816.

These are rheumatoid arthritis-associated clones.

Analysis of ultraviolet radiation damage-associated genes

55

It is known that ultraviolet rays give considerably adverse influence on the health. In

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recent years, there have been significant risks of tissue damage by ultraviolet rays because of destruction of the ozone layer. Thus, ultraviolet radiation has been recognized as a risk factor for skin diseases such as skin cancers (United States Environmental Protection Agency: Ozone Depletion Home Page, <http://www.epa.gov/ozone/>). Genes of which expression levels are varied in skin epidermal cells exposed to ultraviolet rays are considered to be associated with skin damage caused by ultraviolet radiation.

After primary cultured skin fibroblast cells were irradiated with ultraviolet ray and were cultured, a survey was performed for genes of which expression levels were varied depending on the irradiation of ultraviolet ray. First, after cultured to be confluent, the primary cultured skin fibroblast cells (Cell Applications) were exposed to 10,000 $\mu\text{J}/\text{cm}^2$ of 254-nm ultraviolet light.

Messenger RNAs were, then, extracted by using a FastTrack™ 2.0 mRNA Isolation kit (Invitrogen Co.) from the unexposed cells and from the cells that were exposed to the ultraviolet light and then cultured for 4 or 24 hours. The labeling of the hybridization probe was carried out by using a 1.5 μg of each mRNA in the same manner as described above. The data were obtained in triplicate ($n=3$). The hybridization signals were compared between the cells exposed to the ultraviolet light and the unexposed cells. The comparison was preformed by statistical treatment with two-sample t-test. Clones with significant differences in the signal distribution were selected under the condition of $p<0.05$. In this analysis, even when the signal is lower than others, the difference in the signal values can be detected statistically. Accordingly, clones with signal value of 40 or lower were also assessed for selection.

Tables 353-509 show the expression of each cDNA in skin-derived fibroblast cells exposed and unexposed to ultraviolet light.

Averaged signal values (M_1 , M_2) and sample variances (s_1^2 , s_2^2) were calculated for each gene in each of the cells, and then, the pooled sample variances s^2 were obtained from the sample variances of the two types of cells to be compared. The t values were determined according to the following formula: $t=(M_1-M_2)/s/(1/3+1/3)^{1/2}$. When the determined t-value was greater than a t-value at P, which means the probability of significance level, of 0.05 or 0.01 in the t-distribution table with 4 degrees of freedom, the difference was judged to be found in the expression level of the gene between the two types of cells at $p<0.05$ or $p<0.01$, respectively. The tables also include the information of an increase (+) or decrease (-) in the expression level of a gene in the exposed cells in comparison with that of unexposed cells.

The expression levels of the following clones were elevated 4 or 24 hours after the ultraviolet irradiation:

45	HEMBA1000542,	HEMBA1001808,	HEMBA1002177,	HEMBA1003314,	MAMMA1001874,
	NT2RM2001100,	NT2RP2005732,	NT2RP3000592,	NT2RP4000657,	OVARC1000004,
	OVARC1001092,	OVARC1001342,	PLACE1002816,	NT2RM4001002,	NT2RM4001813,
	NT2RM4002266,	NT2RP2001174,	NT2RP2001196,	NT2RP2005358,	NT2RP3000690,
50	NT2RP3001216,	NT2RP3003464,	PLACE1006382,	THYRO1000070,	THYRO1001100,
	Y79AA1000342,				

The expression levels of the following clones were decreased 4 or 24 hours after the ultraviolet irradiation:

55	HEMBA1000005,	HEMBA1000150,	HEMBA1000156,	HEMBA1000158,	HEMBA1000168,
	HEMBA1000231,	HEMBA1000304,	HEMBA1000307,	HEMBA1000333,	HEMBA1000366,
	HEMBA1000369,	HEMBA1000390,	HEMBA1000396,	HEMBA1000418,	HEMBA1000434,

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	HEMBA1000464,	HEMBA1000469,	HEMBA1000490,	HEMBA1000504,	HEMBA1000505,
	HEMBA1000557,	HEMBA1000657,	HEMBA1000673,	HEMBA1000682,	HEMBA1000686,
	HEMBA1000727,	HEMBA1000752,	HEMBA1000851,	HEMBA1000852,	HEMBA1000870,
5	HEMBA1000872,	HEMBA1001085,	HEMBA1001121,	HEMBA1001133,	HEMBA1001235,
	HEMBA1001265,	HEMBA1001281,	HEMBA1001289,	HEMBA1001299,	HEMBA1001303,
	HEMBA1001310,	HEMBA1001323,	HEMBA1001595,	HEMBA1001620,	HEMBA1001640,
	HEMBA1001678,	HEMBA1001712,	HEMBA1001835,	HEMBA1001950,	HEMBA1001987,
10	HEMBA1002253,	HEMBA1002321,	HEMBA1002341,	HEMBA1002419,	HEMBA1002679,
	HEMBA1002728,	HEMBA1002818,	HEMBA1002935,	HEMBA1002999,	HEMBA1003034,
	HEMBA1003071,	HEMBA1003098,	HEMBA1003142,	HEMBA1003175,	HEMBA1003202,
	HEMBA1003212,	HEMBA1003220,	HEMBA1003276,	HEMBA1003373,	HEMBA1003417,
15	HEMBA1003447,	HEMBA1003528,	HEMBA1003684,	HEMBA1003799,	HEMBA1003885,
	HEMBA1003989,	HEMBA1004011,	HEMBA1004055,	HEMBA1004133,	HEMBA1004225,
	HEMBA1004272,	HEMBA1004353,	HEMBA1004631,	HEMBA1004669,	HEMBA1004705,
	HEMBA1004753,	HEMBA1004776,	HEMBA1004803,	HEMBA1004816,	HEMBA1004900,
20	HEMBA1005047,	HEMBA1005079,	HEMBA1005101,	HEMBA1005149,	
	HEMBA1005152,	HEMBA1005202,	HEMBA1005314,	HEMBA1005372,	HEMBA1005511,
	HEMBA1005513,	HEMBA1005518,	HEMBA1005570,	HEMBA1005577,	HEMBA1005581,
	HEMBA1005588,	HEMBA1005609,	HEMBA1005632,	HEMBA1005853,	HEMBA1006031,
25	HEMBA1006035,	HEMBA1006485,	HEMBA1006486,	HEMBA1006502,	HEMBA1006696,
	HEMBA1006789,	HEMBA1006796,	HEMBA1007085,	HEMBA1007224,	HEMBA1007301,
	HEMBA1007319,	HEMBA1007341,	HEMBA1007342,	HEMBA1000036,	HEMBA1000037,
	HEMBA1000217,	HEMBA1000266,	HEMBA1000317,	HEMBA1000336,	HEMBA1000354,
30	HEMBA1000369,	HEMBA1000399,	HEMBA1000434,	HEMBA1000438,	HEMBA1000592,
	HEMBA1000673,	HEMBA1000789,	HEMBA1000810,	HEMBA1000883,	HEMBA1000887,
	HEMBA1001105,	HEMBA1001182,	HEMBA1001242,	HEMBA1001267,	HEMBA1001424,
	HEMBA1001464,	HEMBA1001531,	HEMBA1001618,	HEMBA1001996,	HEMBA1002092,
35	HEMBA1002139,	HEMBA1002142,	HEMBA1002190,	HEMBA1002453,	HEMBA1002520,
	HEMBA1002550,	HEMBA1002556,	HEMBA1002600,	HEMBA1002664,	MAMMA1000009,
	MAMMA1000055,	MAMMA1000069,	MAMMA1000133,	MAMMA1000171,	MAMMA1000173,
	MAMMA1000287,	MAMMA1000416,	MAMMA1000585,	MAMMA1000713,	MAMMA1000760,
40	MAMMA1000798,	MAMMA1000831,	MAMMA1000875,	MAMMA1000876,	MAMMA1000877,
	MAMMA1000906,	MAMMA1000931,	MAMMA1000962,	MAMMA1001133,	MAMMA1001139,
	MAMMA1001243,	MAMMA1001271,	MAMMA1001274,	MAMMA1001298,	MAMMA1001606,
	MAMMA1001630,	MAMMA1001670,	MAMMA1001743,	MAMMA1001751,	MAMMA1002140,
45	MAMMA1002145,	MAMMA1002158,	MAMMA1002170,	MAMMA1002236,	MAMMA1002311,
	MAMMA1002498,	MAMMA1002754,	MAMMA1002780,	MAMMA1002820,	MAMMA1002843,
	MAMMA1002844,	MAMMA1002871,	MAMMA1003047,	NT2RM1000037,	NT2RM1000039,
	NT2RM1000080,	NT2RM1000086,	NT2RM1000341,	NT2RM1000499,	NT2RM1000669,
50	NT2RM1000746,	NT2RM1000781,	NT2RM1000885,	NT2RM1000905,	NT2RM1000962,
	NT2RM2000239,	NT2RM2000260,	NT2RM2000371,	NT2RM2000639,	NT2RM2000649,
	NT2RM2000735,	NT2RM2000821,	NT2RM2000984,	NT2RM2001035,	NT2RM2001065,
	NT2RM2001105,	NT2RM2001177,	NT2RM2001194,	NT2RM2001196,	NT2RM2001243,
55	NT2RM2001256,	NT2RM2001424,	NT2RM2001588,	NT2RM2001635,	NT2RM2001648,
	NT2RM2001652,	NT2RM2001668,	NT2RM2001706,	NT2RM2001727,	NT2RM2001730,
	NT2RM2001743,	NT2RM2001753,	NT2RM2001760,	NT2RM2001771,	NT2RM2001785,

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	NT2RM2001800,	NT2RM2001855,	NT2RM2001896,	NT2RM2001997,	NT2RM2002030,
	NT2RM2002049,	NT2RM2002091,	NT2RM2002142,	NT2RM2002145,	NT2RM2002178,
	NT2RM2002580,	NT2RM4000215,	NT2RM4000344,	NT2RM4000368,	NT2RM4000421,
5	NT2RM4000425,	NT2RM4000457,	NT2RM4000496,	NT2RM4000515,	NT2RM4000712,
	NT2RM4000787,	NT2RM4000813,	NT2RM4000820,	NT2RM4000852,	NT2RM4000950,
	NT2RM4000996,	NT2RM4001016,	NT2RM4001047,	NT2RM4001054,	NT2RM4001140,
	NT2RM4001151,	NT2RM4001187,	NT2RM4001204,	NT2RM4001258,	NT2RM4001437,
10	NT2RM4001454,	NT2RM4001489,	NT2RM4001605,	NT2RM4001611,	NT2RM4001666,
	NT2RM4001710,	NT2RM4001714,	NT2RM4001715,	NT2RM4001731,	NT2RM4001741,
	NT2RM4001746,	NT2RM4001856,	NT2RM4001938,	NT2RM4001940,	NT2RM4001984,
	NT2RM4001987,	NT2RM4002013,	NT2RM4002054,	NT2RM4002055,	NT2RM4002073,
15	NT2RM4002145,	NT2RM4002146,	NT2RM4002161,	NT2RM4002174,	NT2RM4002194,
	NT2RM4002205,	NT2RM4002213,	NT2RM4002266,	NT2RM4002278,	NT2RM4002558,
	NT2RM4002565,	NT2RM4002593,	NT2RM4002594,	NT2RP1000063,	NT2RP1000111,
	NT2RP1000124,	NT2RP1000174,	NT2RP1000348,	NT2RP1000443,	NT2RP1000522,
20	NT2RP1000677,	NT2RP1000695,	NT2RP1000730,	NT2RP1000767,	NT2RP1000834,
	NT2RP1000856,	NT2RP1000944,	NT2RP1001014,	NT2RP1001073,	NT2RP1001079,
	NT2RP1001177,	NT2RP1001185,	NT2RP1001199,	NT2RP1001253,	NT2RP1001310,
	NT2RP1001313,	NT2RP1001385,	NT2RP1001410,	NT2RP1001449,	NT2RP1001546,
25	NT2RP2000120,	NT2RP2000126,	NT2RP2000205,	NT2RP2000224,	NT2RP2000274,
	NT2RP2000298,	NT2RP2000310,	NT2RP2000327,	NT2RP2000328,	NT2RP2000329,
	NT2RP2000337,	NT2RP2000369,	NT2RP2000414,	NT2RP2000498,	NT2RP2000510,
	NT2RP2000715,	NT2RP2000819,	NT2RP2000931,	NT2RP2000938,	NT2RP2001044,
30	NT2RP2001065,	NT2RP2001081,	NT2RP2001137,	NT2RP2001312,	NT2RP2001327,
	NT2RP2001366,	NT2RP2001381,	NT2RP2001420,	NT2RP2001427,	NT2RP2001449,
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	HEMBB1002387,	HEMBB1002409,	HEMBB1002457,	HEMBB1002477,	HEMBB1002489,
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These clones are ultraviolet radiation damage-associated clones.

Table 12

Expression of each cDNA in human tissues (containing clones that are not described in Examples.)

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Clone name	Heart	Lung	P.gland	Thymus	Brain	Kidney	Liver	Spleen
GAPDH(Cr1)	38.210	32.670	23.820	13.580	11.230	21.120	24.910	22.440
Bactin(Cr2)	279.280	368.870	111.100	117.500	92.880	114.850	82.990	256.790
ADRGL1000005	53.882	23.005	32.749	22.858	26.564	24.940	22.644	27.001
ADRGL1000007	94.778	85.185	160.457	67.191	101.768	62.489	67.150	73.543
ADRGL1000009	11.141	50.520	10.357	7.177	6.013	5.219	14.272	21.225
ADRGL1000011	71.656	24.579	29.358	19.473	24.898	30.747	49.220	22.221
ADRGL1000027	36.238	25.252	20.855	7.328	11.196	14.298	19.658	11.288
ADRGL1000058	66.209	129.497	55.226	49.241	30.219	55.872	67.027	243.436
ADRGL1000069	38.630	23.459	28.991	12.540	27.353	33.633	28.774	20.911
ADRGL1000077	97.465	63.656	448.427	83.412	71.108	53.740	67.906	89.439
ADRGL1000092	89.423	45.692	55.810	26.033	44.148	73.339	96.037	73.091
ADRGL1000099	73.675	24.424	36.128	17.024	25.964	41.391	42.837	29.666
ADRGL1000136	141.745	63.974	77.017	24.777	33.549	58.986	295.009	84.985
ADRGL1000147	394.563	155.829	271.210	92.899	165.627	251.266	253.420	150.294
ADRGL1000159	50.073	25.425	39.296	15.194	16.125	20.040	33.720	23.278
ADRGL1000160	69.386	31.051	59.416	20.154	39.799	27.027	47.169	20.716
ADRGL1000171	57.047	23.011	43.063	23.860	40.581	59.814	117.055	32.630
ADRGL1000181	45.892	18.666	34.476	15.434	34.225	32.962	39.693	16.334
BGG111000015	153.242	42.337	92.865	41.003	45.168	88.524	85.990	73.392
BGG111000016	177.367	94.731	119.688	34.159	30.249	98.806	98.783	39.204
BGG111000017	84.712	32.614	38.131	20.878	18.769	32.340	39.666	20.750
BGG111000022	52.468	20.452	67.167	12.167	11.158	18.241	19.197	11.937
BGG111000031	30.008	17.072	40.883	12.585	13.313	15.525	16.757	13.406
BGG111000042	49.926	36.336	51.176	26.964	43.122	43.770	49.107	38.776
BGG111000046	31.618	26.472	34.182	31.854	12.650	25.784	18.430	25.385
BNGH41000020	5031.103	2993.496	1444.841	537.162	6973.542	6029.124	8350.527	3649.144
BNGH41000025	91.717	35.026	73.901	27.713	30.765	36.523	37.596	47.074
BNGH41000026	176.757	77.439	98.345	35.807	56.991	91.310	75.797	70.241
BNGH41000027	65.029	56.353	25.896	22.494	12.763	23.748	17.836	23.859
BNGH41000035	148.779	66.776	119.727	56.576	60.996	96.959	72.461	64.458
BNGH41000037	79.500	29.611	43.438	18.317	20.857	36.272	27.525	24.771
BNGH41000042	224.484	110.084	168.448	104.351	102.259	125.323	86.783	122.959
BNGH41000048	56.144	32.253	54.063	14.729	27.312	22.435	29.566	28.937
BNGH41000056	67.258	18.694	30.075	15.602	10.072	20.735	16.100	7.642
BNGH41000087	98.262	46.173	77.657	35.329	40.900	50.029	50.841	45.285
BNGH41000091	50.895	16.985	28.392	10.147	5.469	22.794	10.725	12.410
BNGH41000157	69.043	34.730	40.597	18.088	27.072	22.074	25.410	24.950
BNGH41000169	44.850	21.770	28.655	11.403	25.991	28.509	25.634	25.843
BNGH41000181	17.153	15.689	13.948	3.996	9.287	13.139	15.553	16.575
BNGH41000198	81.510	36.250	60.860	20.585	26.929	35.751	31.695	28.325
BNGH41000219	30.302	25.156	22.187	13.757	11.208	15.235	27.285	35.709
BNGH41000229	252.790	65.948	93.499	51.108	92.555	101.245	96.716	78.266
BNGH41000237	85.757	46.997	55.170	26.780	33.764	47.456	37.007	39.131
BNGH41000238	17.744	36.938	42.360	14.922	35.749	42.848	39.238	13.241
BNGH41000243	45.446	23.667	44.798	20.875	10.516	23.918	22.443	27.033
BNGH41000270	60.889	18.651	29.618	10.724	15.979	12.351	19.152	22.314
BRAWH1000004	43.673	28.539	7.640	11.388	19.198	14.903	32.353	23.777
BRAWH1000018	59.409	17.941	102.270	17.107	709.078	25.732	24.214	24.767
BRAWH1000021	104.772	29.951	51.142	21.042	1169.154	55.762	66.754	27.969
BRAWH1000027	152.205	47.310	67.089	32.199	64.521	70.731	79.670	40.928
BRAWH1000029	106.376	49.221	55.840	40.856	59.552	56.487	64.886	100.132
BRAWH1000040	29.419	16.761	31.101	16.622	30.633	18.200	17.998	15.196
BRAWH1000050	161.264	71.786	118.976	51.863	61.542	97.720	81.271	69.194
BRAWH1000051	74.067	34.341	44.047	20.726	30.434	42.055	53.856	24.624
BRAWH1000060	68.789	22.598	35.012	16.493	19.127	38.662	34.923	28.094
BRAWH1000075	17.318	16.898	36.437	8.901	18.133	17.219	9.321	11.200
BRAWH1000081	43.025	12.998	28.267	7.655	123.677	17.673	15.924	9.844
BRAWH1000084	174.384	42.178	80.534	47.752	152.188	77.111	110.167	102.296
BRAWH1000095	118.239	59.676	64.528	28.174	116.975	53.814	746.700	35.985
BRAWH1000096	146.112	44.967	85.882	27.491	145.013	52.880	52.427	58.678
BRAWH1000097	95.841	72.506	174.954	65.637	64.200	73.707	63.827	63.762
BRAWH1000100	11.943	19.037	18.950	13.536	92.145	16.582	16.646	10.218
BRAWH1000101	134.838	57.232	106.632	40.741	96.396	71.642	88.432	57.336

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Table 13

	BRAWH1000104	25.414	18.303	14.825	7.695	38.918	23.970	23.794	11.048
	BRAWH1000107	16.949	5.616	12.463	5.518	6.355	5.084	9.107	6.573
5	BRAWH1000110	615.476	492.704	869.088	383.612	368.156	369.621	277.348	340.450
	BRAWH1000111	175.556	68.459	92.209	45.974	64.703	81.723	90.369	57.301
	BRAWH1000135	199.303	38.098	72.093	26.809	57.720	91.668	87.016	35.866
	BRAWH1000190	56.386	41.640	57.914	22.782	55.671	40.034	35.280	40.134
	HEMBA1000005	11.985	23.427	18.882	9.766	12.656	9.959	23.443	21.677
	HEMBA1000006	37.398	24.521	24.529	15.587	22.317	13.336	16.038	15.295
10	HEMBA1000012	81.820	57.193	66.828	26.683	55.423	58.731	85.614	66.259
	HEMBA1000020	157.967	64.157	115.635	51.940	77.293	77.321	83.989	74.362
	HEMBA1000030	82.882	35.447	66.058	26.464	40.990	60.871	47.058	50.652
	HEMBA1000034	47.434	17.878	50.696	5.594	14.005	6.673	24.652	7.134
	HEMBA1000042	147.376	94.003	330.908	69.071	76.472	55.477	37.783	60.479
	HEMBA1000045	28.478	20.289	20.548	12.445	11.835	22.788	11.196	15.775
15	HEMBA1000046	85.160	84.475	242.940	57.017	68.488	45.288	37.098	47.486
	HEMBA1000047	21.380	18.899	18.166	11.393	11.185	12.292	6.491	12.018
	HEMBA1000048	243.559	55.114	84.448	24.247	43.131	99.333	57.041	37.382
	HEMBA1000050	22.711	11.875	21.972	7.477	4.096	13.675	10.347	7.770
	HEMBA1000053	45.071	28.410	38.158	15.982	30.754	36.740	34.184	24.269
	HEMBA1000060	101.197	34.766	50.643	19.938	34.641	54.061	42.309	22.530
20	HEMBA1000072	240.166	213.938	224.688	163.030	115.246	207.809	112.361	276.098
	HEMBA1000073	23.202	9.580	10.815	1.698	6.680	18.155	12.304	14.973
	HEMBA1000076	95.997	46.783	177.931	32.617	48.964	50.792	33.947	44.142
	HEMBA1000084	68.603	25.710	48.434	18.006	22.553	38.118	40.479	29.683
	HEMBA1000087	70.084	17.515	26.544	8.450	17.590	29.220	19.519	22.565
	HEMBA1000088	15.474	8.614	19.903	4.775	4.519	11.446	34.905	6.528
25	HEMBA1000091	80.622	38.604	59.393	23.956	44.939	49.760	33.946	24.614
	HEMBA1000111	85.814	95.270	270.642	75.147	54.384	70.071	29.529	55.422
	HEMBA1000121	55.476	43.368	146.465	37.419	29.398	30.694	17.702	30.398
	HEMBA1000128	37.278	27.165	34.516	13.619	17.702	28.069	12.834	23.965
	HEMBA1000129	51.488	19.659	44.907	12.208	27.243	30.959	24.383	26.851
	HEMBA1000141	12.961	24.515	32.107	14.353	13.502	11.152	8.907	20.635
30	HEMBA1000146	29.273	11.479	20.418	8.202	9.575	14.877	10.000	7.817
	HEMBA1000150	534.562	326.814	684.147	211.774	218.448	322.246	235.752	256.883
	HEMBA1000154	95.272	92.253	101.483	54.276	42.896	75.526	92.689	188.019
	HEMBA1000156	50.177	72.591	58.026	31.149	21.865	38.964	27.634	50.220
	HEMBA1000158	260.718	63.920	89.680	36.337	44.915	93.421	111.344	53.562
	HEMBA1000168	74.416	61.152	62.826	30.512	23.287	34.966	44.005	33.564
35	HEMBA1000180	28.502	22.412	28.571	11.701	19.230	10.803	11.731	14.102
	HEMBA1000185	115.723	50.661	213.994	51.166	43.435	56.261	38.862	44.992
	HEMBA1000188	21.302	14.879	16.948	11.392	11.821	10.656	12.501	6.979
	HEMBA1000193	14.122	8.318	11.905	7.519	4.736	3.349	8.544	7.842
	HEMBA1000194	54.688	49.534	143.817	37.736	20.221	34.328	23.359	56.497
	HEMBA1000201	21.062	14.098	8.690	6.237	5.109	5.059	9.317	10.522
40	HEMBA1000213	22.388	25.532	25.777	8.470	17.320	9.084	8.469	11.766
	HEMBA1000216	65.935	51.368	92.680	19.202	33.659	40.971	36.328	34.891
	HEMBA1000227	52.577	31.332	34.925	19.503	18.411	21.504	22.590	25.781
	HEMBA1000231	114.369	54.299	131.256	38.550	43.246	29.778	24.266	30.410
	HEMBA1000237	91.024	91.360	199.338	58.292	93.250	57.000	49.319	59.288
	HEMBA1000243	53.456	43.969	117.519	38.431	25.396	32.604	38.910	32.153
45	HEMBA1000244	173.469	104.733	115.584	33.079	65.527	124.532	90.927	78.610
	HEMBA1000251	22.709	12.333	14.367	9.019	16.095	13.221	11.516	11.018
	HEMBA1000254	74.060	35.626	130.009	20.848	37.481	24.002	20.553	13.215
	HEMBA1000264	29.478	15.248	23.537	9.473	3.863	11.228	13.690	3.797
	HEMBA1000269	36.718	13.465	28.932	20.412	9.705	12.833	7.348	24.793
	HEMBA1000275	66.201	39.367	84.077	38.846	77.871	49.267	36.211	38.871
50	HEMBA1000280	33.299	36.073	54.357	24.720	38.017	35.751	21.696	30.785
	HEMBA1000282	93.815	121.083	171.037	93.484	123.971	70.384	56.916	92.414
	HEMBA1000287	12.439	24.935	29.793	10.840	37.925	9.632	2.866	7.311
	HEMBA1000288	45.269	30.009	145.363	25.471	9.769	16.272	9.701	15.510
	HEMBA1000290	14.803	5.750	10.615	5.725	2.559	8.602	8.358	9.224
	HEMBA1000296	27.085	22.625	21.195	9.790	16.909	12.402	15.289	17.159
55	HEMBA1000300	98.491	119.119	304.884	73.660	85.595	48.175	43.496	66.547
	HEMBA1000302	23.840	15.442	27.722	16.143	13.081	13.879	8.259	12.569

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Table 14

	HEMBA1000303	129.286	51.013	88.777	32.513	50.462	82.994	44.818	49.271
	HEMBA1000304	112.022	67.470	328.677	54.678	79.305	43.526	38.469	55.762
5	HEMBA1000307	14.054	22.013	31.964	13.167	15.571	7.974	10.014	8.685
	HEMBA1000312	97.082	69.330	183.923	45.322	45.087	52.968	37.741	38.246
	HEMBA1000318	16.164	16.264	18.766	11.688	3.620	10.732	8.295	14.675
	HEMBA1000327	29.404	59.618	81.347	41.731	85.004	48.526	49.421	46.866
	HEMBA1000333	16.964	13.930	14.530	1.872	5.776	1.571	0.392	3.743
	HEMBA1000338	121.878	62.572	348.751	55.463	49.114	38.561	30.698	40.644
10	HEMBA1000343	25.229	29.781	46.395	20.673	5.872	16.551	10.139	14.088
	HEMBA1000349	23.061	12.586	31.755	7.020	17.658	11.622	14.807	15.611
	HEMBA1000351	92.847	57.338	196.577	41.762	37.094	35.370	27.645	28.615
	HEMBA1000355	85.210	38.388	64.299	18.101	33.114	43.511	37.808	26.628
	HEMBA1000356	60.438	38.786	62.442	20.784	17.694	38.058	40.431	28.899
	HEMBA1000357	84.898	55.990	206.803	54.151	42.793	39.432	26.076	44.579
15	HEMBA1000366	47.131	42.031	90.450	27.056	20.718	23.499	14.632	23.547
	HEMBA1000369	71.428	40.685	54.384	17.613	21.422	34.985	37.622	36.900
	HEMBA1000370	16.354	14.949	22.988	7.916	18.390	15.359	13.426	6.647
	HEMBA1000376	80.183	75.300	201.705	55.266	66.687	44.612	55.386	56.070
	HEMBA1000387	100.497	129.367	351.196	80.257	104.250	74.007	57.619	79.876
	HEMBA1000389	69.342	34.021	71.118	22.346	27.319	47.936	53.026	34.161
20	HEMBA1000390	19.206	25.788	21.028	12.401	18.372	13.751	16.243	15.036
	HEMBA1000392	19.400	22.884	44.179	8.776	11.742	10.594	12.266	12.463
	HEMBA1000396	75.409	50.195	81.870	27.979	30.393	31.235	17.771	19.584
	HEMBA1000411	35.966	24.397	25.987	10.341	31.398	31.214	50.056	18.580
	HEMBA1000418	8.165	10.778	14.987	4.031	12.495	7.913	6.363	2.306
25	HEMBA1000422	93.699	38.329	85.266	39.826	45.992	44.729	42.886	34.308
	HEMBA1000428	51.017	30.690	79.229	26.579	24.840	17.767	18.424	18.608
	HEMBA1000434	1.747	3.214	11.346	1.210	1.602	2.927	2.788	2.756
	HEMBA1000442	21.750	7.698	16.227	7.252	3.336	17.969	11.723	10.645
	HEMBA1000443	67.291	35.910	34.775	26.420	16.860	31.691	47.856	102.287
	HEMBA1000446	236.986	69.546	90.283	32.233	34.107	119.377	108.645	60.266
30	HEMBA1000456	95.368	37.560	63.451	22.640	41.092	65.256	62.972	43.493
	HEMBA1000459	28.924	35.333	74.945	20.475	25.324	26.253	13.654	31.317
	HEMBA1000460	18.649	27.246	21.973	9.613	15.230	14.091	9.746	16.955
	HEMBA1000462	220.184	42.636	96.490	31.332	83.626	109.503	92.971	62.126
	HEMBA1000464	34.277	15.137	27.210	10.862	15.595	20.793	16.716	16.539
	HEMBA1000468	41.755	41.852	68.356	10.400	23.452	43.909	24.048	22.968
	HEMBA1000469	68.229	71.011	256.705	47.636	29.853	34.188	22.568	39.190
35	HEMBA1000477	185.220	47.546	102.939	26.276	40.188	95.247	52.454	28.109
	HEMBA1000481	47.276	37.528	24.407	17.115	24.182	29.826	20.717	25.819
	HEMBA1000488	96.226	31.249	71.522	21.667	27.715	44.499	53.708	33.306
	HEMBA1000490	29.915	13.747	32.568	14.002	12.056	6.900	11.274	7.559
	HEMBA1000491	80.198	22.903	47.786	20.675	32.551	52.682	37.109	28.282
	HEMBA1000498	191.186	112.767	454.998	88.614	102.997	82.927	53.205	120.837
40	HEMBA1000501	57.318	55.923	180.158	44.170	27.291	34.954	18.532	34.117
	HEMBA1000504	1.033	5.893	7.152	1.726	0.520	2.245	2.551	1.091
	HEMBA1000505	55.746	36.631	48.155	21.562	14.691	34.729	19.508	31.925
	HEMBA1000507	204.165	114.530	305.249	86.138	81.505	97.289	230.331	95.150
	HEMBA1000508	205.724	105.067	309.791	72.709	70.180	77.388	63.849	45.940
	HEMBA1000518	39.157	29.100	31.505	16.650	14.796	15.847	24.729	17.601
45	HEMBA1000519	166.937	142.676	468.435	148.478	123.978	128.646	85.670	111.078
	HEMBA1000520	0.000	0.000	0.000	10.341	10.619	1.488	9.513	9.395
	HEMBA1000523	38.708	22.090	40.875	13.852	21.603	32.384	20.478	21.422
	HEMBA1000531	21.874	34.044	40.027	12.264	11.034	29.775	20.421	12.540
	HEMBA1000534	0.000	0.000	0.000	34.434	48.940	25.365	41.242	72.583
	HEMBA1000538	0.000	0.000	0.000	17.833	19.981	17.606	26.698	23.904
50	HEMBA1000540	21.974	47.343	33.145	42.629	27.059	33.911	16.639	31.893
	HEMBA1000542	64.656	33.152	58.093	30.174	35.278	55.508	47.917	47.623
	HEMBA1000545	148.870	136.401	48.802	8.499	12.534	7.119	25.484	15.094
	HEMBA1000547	14.825	20.199	32.694	7.058	22.359	12.020	13.535	20.227
	HEMBA1000551	163.806	171.089	543.876	131.764	115.775	116.646	69.596	152.516
	HEMBA1000555	10.531	20.199	25.801	24.488	14.071	15.431	5.986	10.933
55	HEMBA1000557	80.051	48.396	168.724	37.150	32.863	31.872	22.800	30.926
	HEMBA1000561	56.992	22.797	51.047	10.187	16.301	34.904	24.661	22.470

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Table 15

	HEMBA1000561	9.473	11.545	18.205	6.139	12.689	10.132	7.939	14.253
	HEMBA1000567	41.385	38.483	27.881	32.207	15.544	26.052	15.086	86.601
5	HEMBA1000568	44.686	33.379	126.524	26.300	22.533	17.402	26.970	18.707
	HEMBA1000569	58.184	27.187	41.012	21.787	12.925	36.191	33.944	23.225
	HEMBA1000575	155.833	155.759	434.526	92.140	79.143	69.949	59.928	71.189
	HEMBA1000588	41.087	26.072	31.610	14.580	18.024	18.458	23.553	13.279
	HEMBA1000590	29.693	17.090	23.618	7.069	6.633	16.725	20.068	13.042
	HEMBA1000591	106.772	54.874	98.079	34.099	31.776	57.170	48.488	32.768
10	HEMBA1000592	7.408	10.031	9.435	9.551	8.209	5.142	7.480	10.319
	HEMBA1000594	18.401	11.048	22.547	15.327	9.596	12.099	8.751	6.852
	HEMBA1000604	96.047	78.462	146.030	49.571	36.099	70.815	41.797	47.748
	HEMBA1000607	46.819	15.606	46.037	9.438	19.149	21.038	17.317	25.404
	HEMBA1000608	8.985	3.040	6.705	0.000	7.378	4.453	0.000	5.544
	HEMBA1000622	45.570	55.746	113.666	40.310	18.167	19.390	15.895	29.149
15	HEMBA1000634	126.532	49.146	138.073	29.094	95.787	79.662	60.271	71.657
	HEMBA1000636	151.899	51.270	126.200	39.161	51.864	62.611	54.056	39.415
	HEMBA1000637	33.241	23.587	39.380	18.047	16.265	30.075	28.226	24.559
	HEMBA1000655	80.165	70.766	219.283	58.901	61.320	45.821	40.741	62.639
	HEMBA1000657	60.961	31.993	41.401	18.008	30.565	35.201	35.611	42.178
	HEMBA1000662	8.600	8.490	11.263	5.475	2.201	6.140	1.557	2.504
20	HEMBA1000664	14.358	5.082	3.637	2.670	3.516	4.913	3.094	3.579
	HEMBA1000671	11.588	15.473	26.067	17.940	8.865	7.647	10.779	21.196
	HEMBA1000673	73.174	77.410	193.253	46.051	34.388	33.975	25.896	31.646
	HEMBA1000675	7.666	12.047	22.123	5.764	42.036	15.788	10.254	15.555
	HEMBA1000678	7.453	12.314	21.083	12.174	14.897	12.628	6.969	6.584
25	HEMBA1000682	118.965	125.696	255.731	86.894	61.443	66.299	49.060	82.939
	HEMBA1000686	25.079	17.463	23.126	12.722	10.282	13.835	21.393	18.154
	HEMBA1000702	206.683	94.357	286.585	62.386	79.930	90.914	98.397	60.559
	HEMBA1000705	25.430	25.862	47.190	13.191	19.599	26.364	25.013	18.833
	HEMBA1000713	56.893	25.288	70.751	17.660	24.138	23.311	21.805	21.736
	HEMBA1000718	50.149	43.869	128.515	28.289	23.213	18.458	10.003	17.419
	HEMBA1000719	37.969	17.467	28.513	12.147	12.768	22.643	14.744	14.432
30	HEMBA1000722	15.150	9.762	14.699	6.768	11.726	12.080	5.907	9.953
	HEMBA1000726	159.817	111.276	463.937	91.448	109.093	58.587	46.517	70.087
	HEMBA1000727	22.867	26.803	28.886	21.475	11.199	14.966	8.634	30.401
	HEMBA1000732	28.630	11.011	12.790	4.617	3.548	13.325	19.978	13.472
	HEMBA1000736	24.568	21.982	21.410	7.431	11.376	41.026	31.698	16.801
	HEMBA1000743	0.741	4.467	1.793	1.637	1.227	3.642	4.563	3.368
35	HEMBA1000745	8.930	7.067	14.546	3.314	10.067	5.403	9.225	6.085
	HEMBA1000747	21.442	12.487	25.662	17.081	5.384	10.287	9.865	8.267
	HEMBA1000748	22.924	14.885	35.721	12.634	3.045	11.508	4.110	11.756
	HEMBA1000749	67.267	50.826	159.211	43.879	20.345	29.613	19.447	31.693
	HEMBA1000752	54.929	35.778	162.005	28.209	31.540	25.132	15.650	20.776
40	HEMBA1000753	120.889	83.878	155.892	48.092	54.307	53.238	38.941	39.331
	HEMBA1000757	20.234	22.592	52.608	29.935	23.071	24.503	14.548	43.779
	HEMBA1000760	12.599	38.665	19.973	15.800	30.186	14.155	10.570	39.229
	HEMBA1000769	114.956	74.924	304.424	66.815	39.365	48.405	39.918	55.931
	HEMBA1000773	2.162	5.360	11.883	4.445	0.965	3.158	3.956	2.663
	HEMBA1000774	128.563	115.732	330.111	84.461	69.618	59.363	42.656	56.152
45	HEMBA1000780	6.850	7.130	24.176	6.924	6.903	6.546	6.667	9.576
	HEMBA1000783	8.127	5.076	13.701	3.276	8.863	6.241	5.435	4.429
	HEMBA1000791	41.433	51.546	108.542	29.633	42.735	44.515	43.187	40.856
	HEMBA1000793	108.761	30.885	54.568	18.670	31.512	54.669	45.458	34.788
	HEMBA1000802	15.062	11.125	9.052	10.300	11.505	12.950	15.354	16.952
	HEMBA1000813	106.763	52.683	69.701	32.507	44.369	65.862	59.842	56.799
50	HEMBA1000817	19.480	7.070	17.915	4.016	15.239	18.434	11.273	8.079
	HEMBA1000822	9.520	10.358	15.760	7.218	8.704	11.185	6.639	4.662
	HEMBA1000827	96.001	12.420	24.041	8.305	24.000	6.709	3.488	8.591
	HEMBA1000833	53.675	28.970	35.897	14.604	26.383	29.036	20.591	14.341
	HEMBA1000835	74.696	67.353	83.737	34.349	42.834	61.145	66.784	52.015
	HEMBA1000843	74.227	54.197	92.042	37.825	58.573	98.943	87.569	55.077
55	HEMBA1000851	23.913	14.070	13.081	6.847	8.634	12.419	19.200	22.286
	HEMBA1000852	56.702	54.074	105.085	31.127	34.200	31.843	28.843	30.311
	HEMBA1000867	15.548	10.247	11.912	6.256	1.227	12.374	8.518	5.611

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Table 16

	HEMBA1000869	19.696	18.785	34.039	15.061	6.930	13.298	14.305	14.712
	HEMBA1000870	54.189	38.246	44.665	12.647	23.970	41.195	21.911	17.508
5	HEMBA1000872	46.848	46.546	86.933	36.087	40.608	42.532	43.479	36.141
	HEMBA1000875	35.460	41.166	32.238	11.297	35.077	29.781	19.453	23.540
	HEMBA1000876	89.976	56.654	194.869	42.595	57.670	53.567	36.331	40.884
	HEMBA1000907	22.959	9.656	10.917	3.599	3.363	5.327	13.032	10.676
	HEMBA1000908	45.409	18.456	30.665	12.448	8.174	19.529	24.789	16.299
	HEMBA1000910	47.107	13.681	26.933	5.866	7.073	19.938	22.971	11.592
10	HEMBA1000918	67.437	29.880	114.873	25.206	16.670	25.895	26.769	24.710
	HEMBA1000919	44.938	29.704	40.184	22.126	16.008	24.639	23.073	20.233
	HEMBA1000934	162.546	35.314	59.012	18.820	30.796	53.492	33.824	20.798
	HEMBA1000935	16.284	29.481	71.669	12.587	23.834	13.188	7.830	13.322
	HEMBA1000940	44.243	39.296	75.619	25.080	28.113	39.401	25.948	30.168
	HEMBA1000942	126.095	96.812	260.912	62.657	49.118	47.891	35.814	49.631
15	HEMBA1000943	14.439	12.702	14.690	4.792	8.391	11.856	11.039	7.414
	HEMBA1000946	15.461	5.506	18.692	9.000	5.772	0.000	19.405	9.939
	HEMBA1000960	179.860	151.073	343.747	107.319	85.691	117.093	82.928	94.494
	HEMBA1000962	73.395	34.803	60.061	26.562	28.789	47.944	60.067	31.619
	HEMBA1000968	14.529	12.486	35.270	18.733	6.213	7.458	7.214	4.624
	HEMBA1000971	50.148	19.281	37.515	12.222	19.562	29.874	22.045	23.135
20	HEMBA1000972	51.100	33.450	188.137	28.972	24.576	23.736	13.731	27.272
	HEMBA1000974	5.509	10.649	12.866	2.929	2.603	3.800	6.104	4.964
	HEMBA1000975	34.417	19.132	42.499	15.644	4.009	16.478	14.192	14.353
	HEMBA1000979	90.061	38.532	99.641	19.754	27.516	38.801	31.347	36.440
	HEMBA1000981	35.338	31.281	38.672	19.544	34.385	38.280	24.897	29.059
	HEMBA1000983	71.391	34.501	58.683	22.640	32.825	32.384	27.465	31.286
25	HEMBA1000985	9.290	20.363	22.497	4.058	6.343	9.035	7.852	3.257
	HEMBA1000986	128.714	74.713	236.019	56.662	52.957	85.340	63.718	54.892
	HEMBA1000991	72.707	55.780	160.717	34.676	32.494	41.317	23.483	37.846
	HEMBA1001007	123.690	42.563	69.807	23.525	34.263	47.777	47.496	48.154
	HEMBA1001008	124.864	47.842	83.746	18.125	25.490	52.693	30.668	24.961
	HEMBA1001009	37.843	29.269	36.715	11.055	17.115	17.937	17.701	22.055
30	HEMBA1001014	109.049	83.356	233.234	60.123	61.977	94.424	47.095	74.625
	HEMBA1001017	50.408	20.212	48.394	16.020	28.537	31.917	27.876	24.283
	HEMBA1001019	7.327	7.582	14.865	6.154	10.598	5.643	3.920	7.188
	HEMBA1001020	53.067	55.646	115.814	31.640	25.647	24.596	23.146	27.169
	HEMBA1001021	115.724	42.415	59.434	28.828	26.181	64.484	64.173	29.614
	HEMBA1001022	37.883	25.835	28.969	18.452	20.270	22.790	25.194	20.783
35	HEMBA1001024	23.524	15.235	16.511	8.023	11.818	13.894	8.606	8.098
	HEMBA1001026	21.343	12.515	18.851	6.888	7.288	12.663	8.419	7.418
	HEMBA1001043	10.374	11.995	9.892	10.750	19.163	9.299	8.047	8.589
	HEMBA1001051	124.869	115.181	387.345	100.376	67.510	61.660	46.295	68.994
	HEMBA1001052	38.892	13.860	19.067	12.855	11.445	24.382	15.726	12.323
	HEMBA1001059	98.097	41.525	66.565	27.826	26.220	46.725	42.356	36.506
40	HEMBA1001060	116.857	74.020	161.485	61.750	50.524	52.957	38.575	52.612
	HEMBA1001064	32.251	24.026	33.937	14.007	7.907	13.710	17.387	16.720
	HEMBA1001071	25.850	16.043	19.924	7.855	3.425	9.530	6.779	24.242
	HEMBA1001077	24.689	23.055	64.486	19.413	16.821	16.858	13.165	12.873
	HEMBA1001078	33.254	26.761	41.713	26.498	24.531	31.498	25.302	23.636
	HEMBA1001080	57.701	23.951	31.254	22.489	24.848	33.265	31.880	26.484
45	HEMBA1001084	62.698	41.625	171.096	31.438	31.760	24.829	17.487	26.581
	HEMBA1001085	159.252	116.909	294.247	77.235	81.384	76.498	59.989	55.574
	HEMBA1001088	74.704	42.537	46.695	19.266	25.146	33.498	44.927	26.310
	HEMBA1001093	30.048	28.810	72.081	20.831	14.610	11.033	15.558	22.531
	HEMBA1001094	5.535	8.779	10.059	3.089	4.628	4.521	4.834	4.468
	HEMBA1001099	18.322	24.021	14.814	7.146	13.778	16.055	11.044	10.190
50	HEMBA1001104	21.919	13.788	35.048	9.637	18.058	24.450	21.559	18.527
	HEMBA1001109	186.384	190.240	540.908	155.496	134.630	93.324	78.690	116.187
	HEMBA1001114	89.023	252.529	187.547	75.857	35.109	66.259	69.432	341.702
	HEMBA1001121	32.820	25.812	89.860	19.710	34.244	18.209	9.519	15.621
	HEMBA1001122	3.304	6.213	8.316	4.763	19.120	5.650	4.506	23.059
	HEMBA1001123	108.859	55.807	190.789	41.415	39.028	42.683	25.551	30.174
55	HEMBA1001133	50.744	21.167	36.786	14.764	34.752	26.702	23.524	11.367
	HEMBA1001137	38.685	21.659	46.297	21.567	13.174	15.867	11.767	25.508

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Table 17

	HEMBA1001140	60.453	66.122	169.353	48.837	60.363	44.403	30.367	43.561
	HEMBA1001144	278.126	195.811	643.688	207.291	166.089	101.134	106.337	142.120
5	HEMBA1001145	58.539	241.368	206.084	46.342	39.316	61.827	91.170	66.852
	HEMBA1001158	29.417	28.121	43.877	13.337	24.176	19.965	18.089	28.622
	HEMBA1001172	74.727	47.695	213.708	37.115	24.460	26.620	19.178	32.709
	HEMBA1001174	6.279	8.617	8.831	7.914	2.574	8.031	3.119	4.980
	HEMBA1001175	29.561	34.909	43.568	19.819	34.829	16.588	19.883	17.824
	HEMBA1001182	136.762	64.608	105.979	44.066	83.417	86.736	126.297	79.785
10	HEMBA1001184	16.758	9.703	22.060	9.016	11.018	10.205	6.347	9.176
	HEMBA1001192	15.119	10.798	11.626	6.559	5.736	3.435	9.089	11.273
	HEMBA1001197	82.571	114.743	110.687	83.431	56.396	68.797	99.959	173.379
	HEMBA1001208	40.250	30.964	37.220	19.514	11.451	24.172	27.637	12.469
	HEMBA1001213	81.501	37.345	57.618	18.958	24.480	52.160	51.978	31.326
	HEMBA1001214	36.798	16.011	20.958	17.612	12.418	20.697	19.108	21.328
15	HEMBA1001221	14.108	10.456	11.382	7.001	17.058	10.307	7.980	11.111
	HEMBA1001225	13.961	14.077	13.384	5.925	5.876	13.456	12.076	5.825
	HEMBA1001226	173.501	137.685	444.754	120.060	113.306	75.167	63.960	67.304
	HEMBA1001228	115.971	48.677	102.518	36.755	64.214	50.002	60.915	35.178
	HEMBA1001229	246.802	111.161	135.886	43.460	94.703	148.387	156.871	115.302
20	HEMBA1001235	43.880	86.102	81.818	36.769	54.172	65.830	70.065	66.201
	HEMBA1001238	67.342	62.561	136.273	36.471	33.652	41.838	26.195	28.747
	HEMBA1001242	55.562	43.106	58.593	41.382	47.200	38.498	43.114	44.230
	HEMBA1001247	28.768	22.129	16.518	10.576	8.758	17.031	9.651	13.385
	HEMBA1001253	58.130	60.415	66.640	18.982	45.992	54.071	95.073	63.393
	HEMBA1001257	33.557	18.509	24.256	10.657	12.732	31.261	24.849	9.134
25	HEMBA1001261	585.214	143.415	243.791	98.186	169.988	310.109	234.388	125.796
	HEMBA1001262	27.336	17.339	19.088	5.647	15.678	20.899	11.464	19.889
	HEMBA1001265	36.604	28.090	152.221	27.730	49.893	34.423	16.502	26.993
	HEMBA1001266	69.367	67.414	170.657	45.898	31.802	39.554	41.287	52.480
	HEMBA1001269	69.921	44.649	36.964	34.126	22.232	42.207	49.848	39.719
	HEMBA1001272	20.406	15.416	11.514	7.843	8.604	7.893	20.960	13.545
30	HEMBA1001279	113.597	76.085	147.371	41.113	50.841	58.248	43.344	47.548
	HEMBA1001281	45.326	37.551	65.225	44.536	46.787	41.371	32.229	56.625
	HEMBA1001286	370.697	150.949	236.623	103.571	123.976	219.461	196.233	117.566
	HEMBA1001289	41.041	24.670	40.151	15.175	30.612	27.627	26.637	19.344
	HEMBA1001291	76.537	40.444	50.226	18.776	38.423	55.355	46.692	35.972
	HEMBA1001294	82.258	72.319	157.642	42.143	20.735	29.333	17.711	34.443
35	HEMBA1001296	53.487	17.150	31.045	10.275	15.918	21.120	15.842	13.595
	HEMBA1001297	13.397	24.306	19.513	11.631	14.701	4.543	9.800	8.121
	HEMBA1001299	122.378	135.140	326.747	90.817	73.749	56.152	49.803	80.999
	HEMBA1001302	56.839	29.036	56.412	19.108	20.078	34.481	51.929	37.087
	HEMBA1001303	14.975	18.442	43.778	16.797	10.985	11.442	9.787	19.264
40	HEMBA1001306	262.869	135.864	244.234	109.949	109.582	147.334	146.509	115.543
	HEMBA1001308	174.017	96.705	220.049	56.953	61.486	74.225	56.171	58.657
	HEMBA1001310	103.029	52.915	67.714	22.895	38.245	67.233	49.204	51.006
	HEMBA1001312	98.664	47.333	61.080	18.118	33.555	47.007	41.795	38.627
	HEMBA1001319	2.396	8.234	13.960	1.828	5.485	3.003	5.682	3.780
	HEMBA1001322	139.794	39.912	105.709	27.700	41.977	70.428	70.602	46.470
	HEMBA1001323	33.347	16.728	25.356	11.399	17.982	11.181	6.356	12.033
45	HEMBA1001326	86.190	37.984	69.933	24.331	30.078	49.223	46.365	16.347
	HEMBA1001327	7.232	9.387	23.180	7.314	5.185	9.563	4.423	5.267
	HEMBA1001330	115.768	106.951	275.315	73.389	24.661	70.535	40.088	77.680
	HEMBA1001348	15.770	21.874	26.347	9.575	13.666	23.703	12.647	13.724
	HEMBA1001350	75.857	38.749	51.454	16.428	34.291	56.400	34.055	24.753
	HEMBA1001351	52.274	55.313	56.544	30.521	46.408	29.604	44.212	30.972
50	HEMBA1001352	68.321	46.617	54.427	17.559	29.887	39.484	52.789	29.131
	HEMBA1001353	39.891	57.492	54.971	31.425	27.945	45.687	29.741	66.188
	HEMBA1001358	45.659	52.406	59.774	46.865	40.225	47.618	32.581	59.101
	HEMBA1001361	22.908	16.519	28.635	11.897	15.569	13.635	13.938	16.914
	HEMBA1001364	18.896	17.205	23.355	7.224	9.469	13.379	76.125	15.026
	HEMBA1001375	61.506	22.179	38.795	12.798	25.778	40.077	21.715	22.300
55	HEMBA1001377	140.430	131.029	307.084	83.191	100.026	74.475	63.988	96.351
	HEMBA1001383	23.974	26.206	28.704	11.442	17.819	19.160	16.899	7.766
	HEMBA1001387	58.343	34.130	63.677	19.556	30.371	42.397	40.247	49.239

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Table 18

	HEMBA1001388	48.601	24.690	39.877	18.958	10.634	32.922	22.224	33.218
	HEMBA1001390	132.003	94.390	254.352	56.412	64.490	47.169	44.169	57.372
5	HEMBA1001391	18.302	9.686	12.994	6.299	10.600	8.500	7.116	5.544
	HEMBA1001398	91.232	50.992	142.408	36.081	29.548	29.490	28.704	29.984
	HEMBA1001405	58.645	22.354	32.227	15.864	9.285	19.993	24.564	13.964
	HEMBA1001406	36.434	22.693	105.808	18.094	19.994	13.316	18.019	16.592
	HEMBA1001407	38.781	19.637	24.599	18.935	13.107	23.014	18.826	15.060
	HEMBA1001411	28.412	7.180	21.950	8.303	9.708	14.302	8.598	6.663
10	HEMBA1001413	66.736	26.480	35.635	15.400	24.013	18.356	24.304	20.769
	HEMBA1001414	20.720	7.567	18.414	12.522	9.722	12.903	18.283	18.581
	HEMBA1001415	76.802	54.702	159.510	34.156	20.989	32.235	21.694	26.676
	HEMBA1001416	41.784	23.474	29.453	12.230	24.881	24.993	25.847	28.651
	HEMBA1001432	74.066	60.077	190.870	40.409	63.619	36.879	66.751	33.675
	HEMBA1001433	132.672	110.163	246.542	77.852	61.676	50.447	37.821	64.403
15	HEMBA1001435	138.669	108.645	334.104	89.523	68.855	59.723	58.393	56.483
	HEMBA1001442	13.093	8.604	11.177	7.985	15.704	7.291	6.742	6.336
	HEMBA1001446	102.450	63.255	146.442	40.086	27.976	37.353	30.266	41.647
	HEMBA1001450	72.339	35.494	55.103	30.799	31.322	42.457	42.764	41.349
	HEMBA1001454	146.726	128.060	438.247	88.679	43.129	54.712	41.131	31.250
	HEMBA1001455	5.879	8.197	8.325	5.561	4.437	5.252	4.300	7.359
20	HEMBA1001459	17.432	15.927	16.490	6.749	2.733	5.888	7.836	10.963
	HEMBA1001461	61.531	52.734	57.136	38.874	24.764	19.473	23.241	32.318
	HEMBA1001462	10.875	14.911	16.843	12.984	13.465	48.381	7.061	25.992
	HEMBA1001463	137.907	83.753	340.496	93.114	51.866	61.784	37.705	68.960
	HEMBA1001469	85.416	21.757	29.463	15.911	84.887	77.440	27.033	29.537
	HEMBA1001473	20.582	31.855	36.498	8.307	3.680	16.703	21.371	19.890
25	HEMBA1001476	135.720	113.851	246.800	65.595	57.431	63.903	65.229	67.697
	HEMBA1001477	5.228	2.001	4.505	2.645	1.540	3.243	1.426	2.876
	HEMBA1001478	14.335	10.180	12.692	5.468	4.474	5.444	2.171	4.539
	HEMBA1001480	88.891	28.381	49.689	21.660	14.126	36.334	38.272	30.563
	HEMBA1001483	29.872	5.156	20.900	4.647	5.264	9.545	13.805	4.424
	HEMBA1001490	6.867	6.967	14.148	7.289	1.585	5.016	5.792	5.999
30	HEMBA1001495	431.282	118.073	203.714	73.985	176.836	195.947	194.164	146.945
	HEMBA1001497	93.817	60.807	227.867	55.576	41.006	34.182	23.206	45.223
	HEMBA1001510	174.254	120.414	343.336	76.008	76.932	73.234	61.531	76.899
	HEMBA1001515	45.158	26.337	67.169	15.756	15.962	10.664	9.567	12.346
	HEMBA1001517	51.005	47.728	80.287	34.595	28.246	21.020	17.229	33.972
	HEMBA1001522	7.431	8.980	7.032	7.566	5.011	6.466	6.447	4.824
35	HEMBA1001526	48.774	21.300	32.732	18.831	22.395	22.767	23.530	17.914
	HEMBA1001533	129.423	85.570	262.800	70.163	46.649	44.926	26.457	37.421
	HEMBA1001547	59.442	26.656	27.947	8.053	15.558	53.508	108.861	25.371
	HEMBA1001552	41.663	33.242	115.535	26.222	30.447	18.258	21.358	25.853
	HEMBA1001553	58.388	75.765	66.228	32.264	38.396	54.513	64.874	41.905
40	HEMBA1001557	182.516	80.827	161.852	69.344	80.644	123.765	111.732	70.946
	HEMBA1001563	39.649	31.429	85.246	26.057	12.157	15.987	10.065	17.083
	HEMBA1001566	37.835	49.964	108.284	35.793	23.255	25.180	21.368	39.375
	HEMBA1001569	75.584	44.631	109.624	35.487	130.340	63.130	44.960	55.257
	HEMBA1001570	198.300	125.319	444.153	119.332	74.267	79.979	64.732	90.896
	HEMBA1001579	103.128	60.654	48.704	22.469	22.629	67.058	24.391	34.300
45	HEMBA1001581	153.698	126.225	312.570	131.687	142.104	91.884	67.267	94.418
	HEMBA1001582	3.551	7.087	15.302	4.019	8.190	4.888	4.671	5.144
	HEMBA1001585	27.271	18.375	25.179	14.108	5.648	14.993	7.628	12.297
	HEMBA1001589	109.877	22.722	49.216	20.427	22.904	64.665	57.120	21.314
	HEMBA1001595	71.600	62.349	46.938	34.447	29.362	34.516	45.233	35.562
	HEMBA1001604	41.253	27.004	34.167	16.004	6.061	21.932	18.414	23.101
50	HEMBA1001608	35.073	29.270	41.525	21.276	22.867	22.699	14.094	15.366
	HEMBA1001615	556.575	105.703	103.519	47.686	27.311	81.914	42.373	58.652
	HEMBA1001620	134.940	29.972	79.824	31.924	62.056	54.423	64.359	36.203
	HEMBA1001621	70.036	30.704	63.807	15.048	19.545	42.391	33.266	40.516
	HEMBA1001635	39.932	29.397	35.653	16.214	18.765	19.655	22.405	14.095
	HEMBA1001636	73.726	18.596	35.798	14.928	12.865	24.352	31.819	22.414
55	HEMBA1001640	48.402	45.105	79.588	28.452	22.449	25.101	30.009	43.819
	HEMBA1001647	82.402	39.456	75.907	35.084	26.220	48.859	71.158	46.463
	HEMBA1001651	390.307	66.648	181.929	51.802	112.530	208.201	178.161	96.640

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Table 19

	HEMBA1001655	60.366	18.983	58.438	20.404	25.072	27.162	29.260	26.673
	HEMBA1001658	6.754	15.270	17.542	13.420	5.060	4.800	4.973	4.979
5	HEMBA1001661	87.199	20.304	32.793	13.066	8.394	24.098	22.916	24.583
	HEMBA1001665	160.583	20.830	54.460	12.363	48.457	86.024	73.847	21.248
	HEMBA1001670	16.953	38.651	17.002	34.999	14.855	17.849	22.906	29.478
	HEMBA1001672	32.013	18.885	29.000	10.798	7.763	13.782	17.314	12.393
	HEMBA1001673	38.188	67.401	34.336	38.037	14.401	17.612	30.520	43.461
	HEMBA1001675	25.652	15.594	33.810	5.190	15.796	13.173	20.020	12.830
10	HEMBA1001676	91.000	54.310	85.397	92.681	131.468	50.365	47.230	68.405
	HEMBA1001678	218.382	128.995	336.408	93.889	115.305	80.843	48.879	83.933
	HEMBA1001680	82.159	51.521	165.818	33.978	36.449	33.368	38.495	35.261
	HEMBA1001681	1.654	0.785	0.840	2.142	2.581	2.772	2.146	2.424
	HEMBA1001684	143.985	84.151	177.154	72.850	69.097	61.638	30.820	52.077
	HEMBA1001695	16.068	10.112	14.571	6.860	4.930	4.572	6.164	7.330
15	HEMBA1001702	26.509	13.637	8.186	8.466	4.041	2.043	3.870	3.613
	HEMBA1001709	67.279	26.552	35.845	13.982	21.742	28.610	24.540	19.603
	HEMBA1001711	20.072	29.559	39.037	20.902	21.639	12.713	14.718	33.127
	HEMBA1001712	80.448	25.222	51.628	19.393	12.482	38.014	39.474	14.831
	HEMBA1001714	360.368	55.902	142.225	33.748	51.048	144.094	124.654	59.543
	HEMBA1001717	78.599	137.380	18.549	12.298	5.575	38.689	10.120	6.047
20	HEMBA1001718	51.621	52.280	151.597	31.305	21.166	29.146	14.075	24.411
	HEMBA1001723	17.072	13.658	8.525	5.653	8.811	9.350	11.097	7.268
	HEMBA1001731	35.728	22.781	41.531	15.151	12.421	15.292	14.020	16.584
	HEMBA1001734	52.546	40.599	99.558	25.099	24.031	28.537	17.389	32.936
	HEMBA1001736	177.269	58.328	110.046	33.820	58.955	108.630	91.464	62.571
	HEMBA1001741	41.432	12.649	29.883	14.886	16.207	10.446	11.420	7.286
25	HEMBA1001744	5.531	6.849	12.961	13.191	14.151	4.519	8.367	8.623
	HEMBA1001745	41.752	17.786	36.239	12.476	21.118	23.635	15.410	16.514
	HEMBA1001746	27.437	14.874	24.099	8.668	21.929	19.488	11.306	10.070
	HEMBA1001761	93.148	46.911	179.597	28.212	33.421	34.026	19.164	25.901
	HEMBA1001762	55.612	45.069	102.148	38.307	35.260	33.316	21.274	45.248
	HEMBA1001781	13.298	21.385	26.693	6.898	17.098	52.601	11.768	23.068
30	HEMBA1001784	89.965	43.765	70.064	26.575	31.708	50.347	52.265	31.618
	HEMBA1001791	182.379	81.719	171.066	44.628	49.350	82.856	58.215	48.207
	HEMBA1001794	248.582	163.789	153.778	73.632	50.595	152.279	178.827	132.329
	HEMBA1001800	23.432	21.165	27.668	11.281	20.728	24.910	36.900	22.729
	HEMBA1001803	17.343	8.333	22.801	6.620	6.043	7.560	6.613	10.079
	HEMBA1001804	109.775	44.797	59.456	29.337	34.849	44.372	36.696	35.851
35	HEMBA1001808	78.129	23.567	38.056	15.858	23.507	27.136	14.673	12.332
	HEMBA1001809	66.887	31.733	54.127	33.314	26.179	35.618	41.552	46.141
	HEMBA1001811	58.974	24.196	37.583	17.314	16.018	21.582	15.074	19.831
	HEMBA1001815	71.286	63.775	155.707	37.153	29.944	35.297	25.257	24.172
	HEMBA1001816	38.494	19.017	16.797	7.139	5.598	16.061	22.304	14.646
	HEMBA1001819	18.590	21.371	38.109	20.938	21.358	15.313	14.917	25.144
40	HEMBA1001820	10.884	9.530	8.017	3.507	4.470	3.473	2.999	3.099
	HEMBA1001822	74.239	95.719	91.314	62.121	28.285	42.988	38.222	47.532
	HEMBA1001824	155.543	93.583	301.248	95.135	67.478	89.045	64.562	61.114
	HEMBA1001835	23.616	7.706	25.753	5.777	19.660	19.809	12.020	10.462
	HEMBA1001844	149.876	52.023	230.213	48.968	42.113	39.652	33.559	40.495
	HEMBA1001847	52.045	19.220	40.636	20.235	5.196	35.109	20.186	35.814
45	HEMBA1001849	101.048	104.708	250.547	53.025	28.022	40.644	33.371	35.250
	HEMBA1001850	105.331	27.032	39.813	15.808	31.525	42.751	44.306	18.213
	HEMBA1001861	3.104	4.469	6.763	3.292	4.454	2.945	0.995	3.121
	HEMBA1001862	50.279	145.708	102.412	25.750	34.563	40.833	22.588	71.713
	HEMBA1001864	24.313	31.572	50.378	32.237	24.991	21.182	21.031	28.126
	HEMBA1001866	57.711	54.190	146.615	31.714	19.527	26.041	22.874	21.249
50	HEMBA1001869	55.280	99.559	58.454	35.799	45.195	40.562	22.644	40.891
	HEMBA1001871	75.011	44.336	77.195	41.540	39.300	54.584	34.598	42.631
	HEMBA1001876	34.287	31.955	30.568	85.092	19.827	15.356	8.554	21.861
	HEMBA1001878	17.361	17.619	17.545	15.644	5.481	11.657	14.965	18.117
	HEMBA1001879	57.004	22.429	37.128	16.562	20.200	35.414	21.946	17.114
55	HEMBA1001884	68.009	84.640	41.930	38.470	27.460	36.604	25.345	26.320
	HEMBA1001886	12.711	12.605	37.824	31.827	15.893	14.038	6.697	38.737
	HEMBA1001888	63.251	46.960	165.623	41.706	21.154	29.117	21.131	33.090

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Table 20

	HEMBA1001890	42.902	42.848	42.779	30.112	25.432	24.430	22.605	26.730
	HEMBA1001896	66.448	24.720	44.103	21.972	17.708	30.703	19.628	23.571
5	HEMBA1001899	36.251	25.553	24.121	14.701	12.301	21.838	17.455	20.813
	HEMBA1001904	54.904	256.020	233.857	243.646	55.587	234.548	188.571	526.744
	HEMBA1001910	40.309	10.865	13.738	11.244	8.225	15.367	15.894	13.300
	HEMBA1001911	35.962	23.128	26.357	25.151	11.860	24.224	22.870	18.238
	HEMBA1001912	59.924	66.966	97.679	51.180	45.903	33.336	33.019	40.551
	HEMBA1001913	175.368	39.664	67.432	33.132	26.376	63.459	70.607	52.824
10	HEMBA1001915	14.756	14.666	30.224	8.295	7.629	17.718	6.737	8.522
	HEMBA1001918	5.018	8.961	27.591	7.538	11.032	8.265	4.852	4.772
	HEMBA1001921	4.431	8.444	18.196	11.252	12.587	7.417	7.668	2.769
	HEMBA1001931	3.948	0.000	4.664	1.422	3.480	2.935	1.127	2.898
	HEMBA1001939	94.821	24.679	81.706	24.209	16.692	37.223	29.835	13.058
	HEMBA1001940	54.512	33.931	145.138	26.273	27.653	18.649	13.136	19.614
15	HEMBA1001942	38.572	16.710	32.402	18.718	14.782	25.435	26.410	16.143
	HEMBA1001944	210.898	71.197	96.883	48.156	38.533	82.132	92.097	74.740
	HEMBA1001945	31.531	17.019	14.533	10.175	3.037	17.421	12.222	11.694
	HEMBA1001950	7.103	7.424	9.611	3.281	4.091	7.632	5.310	4.044
	HEMBA1001951	46.024	19.234	101.026	19.207	13.212	23.714	20.006	19.402
	HEMBA1001958	44.554	12.806	35.277	17.321	13.181	22.652	28.735	20.948
20	HEMBA1001960	20.513	7.802	16.888	8.822	2.948	8.826	10.834	12.935
	HEMBA1001962	4.367	5.104	4.205	2.811	3.031	4.870	2.364	2.994
	HEMBA1001964	35.944	22.281	62.761	18.757	6.663	17.775	8.068	8.601
	HEMBA1001967	47.345	29.504	42.717	13.526	22.051	33.555	23.601	37.521
	HEMBA1001979	35.138	6.478	16.732	12.797	5.919	13.447	10.355	9.155
	HEMBA1001987	60.083	52.275	190.331	45.735	24.898	26.381	17.514	28.891
25	HEMBA1001991	111.286	79.833	276.568	56.455	50.862	50.789	40.252	54.919
	HEMBA1002003	66.389	23.989	53.710	17.039	17.174	30.547	28.422	24.474
	HEMBA1002005	86.885	41.457	150.127	33.935	15.339	24.541	24.237	27.345
	HEMBA1002008	32.101	25.375	86.511	18.349	8.912	7.593	18.519	14.967
	HEMBA1002018	66.105	22.380	36.174	16.134	21.482	27.922	34.098	27.804
	HEMBA1002022	13.986	8.018	13.490	0.000	2.985	5.730	6.036	1.433
30	HEMBA1002029	132.547	305.823	115.974	144.692	70.087	74.071	37.046	204.730
	HEMBA1002030	17.077	10.337	14.524	5.906	8.466	5.897	6.258	6.824
	HEMBA1002035	48.658	12.959	10.324	14.325	7.176	14.446	14.084	13.506
	HEMBA1002037	16.343	34.097	27.567	14.451	12.568	15.087	13.819	12.140
	HEMBA1002038	68.477	31.733	91.391	16.935	8.370	6.020	17.500	19.367
	HEMBA1002039	15.944	22.707	17.807	13.914	7.910	3.306	4.716	11.003
35	HEMBA1002042	41.657	27.877	32.654	21.111	14.815	10.217	24.300	22.659
	HEMBA1002043	149.364	92.912	208.642	70.906	53.861	84.089	81.242	61.829
	HEMBA1002048	137.253	29.889	60.279	19.894	21.605	66.594	55.483	30.137
	HEMBA1002049	98.417	84.099	271.170	63.157	87.434	48.247	39.557	53.676
	HEMBA1002053	33.636	19.194	25.821	11.890	16.358	16.441	25.376	27.152
40	HEMBA1002055	67.115	34.916	39.511	37.518	17.449	25.297	28.606	39.067
	HEMBA1002056	13.684	12.039	16.129	14.136	1.311	8.564	4.481	12.538
	HEMBA1002061	11.815	14.960	29.478	10.168	10.973	11.179	9.701	8.124
	HEMBA1002080	59.350	80.319	81.497	43.371	72.416	39.904	45.653	53.581
	HEMBA1002084	11.331	7.502	15.981	7.301	10.773	13.652	6.835	5.555
	HEMBA1002085	69.868	62.174	111.196	13.760	19.083	101.175	43.117	14.011
	HEMBA1002092	127.409	33.016	60.924	24.219	32.654	72.141	50.433	27.770
45	HEMBA1002098	34.645	16.695	25.357	15.741	15.632	18.082	12.882	20.451
	HEMBA1002100	118.301	90.733	129.453	60.276	41.079	89.713	44.294	67.352
	HEMBA1002101	57.160	69.427	106.418	34.067	32.565	38.238	15.932	74.139
	HEMBA1002102	104.746	76.058	178.766	45.801	50.114	53.399	40.628	54.459
	HEMBA1002105	35.380	25.812	31.300	14.131	14.867	29.842	22.894	23.960
	HEMBA1002107	62.621	45.738	65.486	28.199	31.808	52.057	163.850	77.437
50	HEMBA1002113	745.018	196.517	1335.986	321.385	369.500	391.825	236.013	348.025
	HEMBA1002119	35.812	23.546	72.351	18.292	19.991	18.086	26.533	25.611
	HEMBA1002125	42.106	14.033	45.440	15.858	20.474	47.217	28.894	33.563
	HEMBA1002131	84.269	29.512	46.944	12.807	29.311	40.381	49.691	37.106
	HEMBA1002133	37.736	19.103	27.034	45.990	11.161	21.694	20.410	24.305
	HEMBA1002139	25.756	10.925	20.941	4.978	11.839	9.451	7.795	9.431
55	HEMBA1002141	20.036	14.349	19.713	9.608	3.638	14.521	10.225	10.190
	HEMBA1002144	86.896	68.335	193.756	56.749	45.612	36.918	23.020	39.262

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Table 21

	HEMBA1002147	135.045	48.848	87.208	42.412	46.318	67.257	83.313	45.988
	HEMBA1002150	347.113	89.434	182.502	48.715	86.270	215.282	234.394	85.507
5	HEMBA1002151	60.410	19.140	11.868	10.122	7.938	26.996	19.485	14.196
	HEMBA1002153	32.258	25.478	35.746	20.325	25.638	15.972	26.019	19.827
	HEMBA1002156	118.226	31.167	44.382	21.446	21.743	47.426	40.620	16.858
	HEMBA1002160	166.654	114.853	336.241	90.651	71.047	63.857	41.633	55.419
	HEMBA1002161	72.851	68.019	132.156	42.302	37.035	29.438	49.436	41.818
	HEMBA1002162	122.516	62.989	307.464	68.589	51.141	55.242	37.823	54.952
10	HEMBA1002163	49.889	43.602	64.932	20.426	7.151	0.000	30.979	32.578
	HEMBA1002164	110.221	59.044	71.408	32.652	19.476	39.440	43.639	52.404
	HEMBA1002166	312.686	256.137	768.834	194.638	171.071	159.271	134.442	213.993
	HEMBA1002167	139.053	18.430	69.693	11.057	30.091	50.202	48.620	13.648
	HEMBA1002173	137.562	47.918	197.006	36.833	26.164	29.478	20.169	23.078
	HEMBA1002177	100.895	25.141	41.676	25.857	17.903	28.153	22.687	14.081
15	HEMBA1002178	102.831	19.500	46.717	13.290	32.323	37.856	44.115	27.390
	HEMBA1002179	55.617	56.403	85.686	45.680	26.918	60.684	59.110	64.849
	HEMBA1002185	85.236	71.958	212.844	43.915	27.049	32.172	22.480	32.386
	HEMBA1002188	79.413	28.280	31.826	23.275	21.094	33.295	36.478	18.236
	HEMBA1002189	56.349	70.609	148.011	47.092	32.460	30.101	34.751	30.532
	HEMBA1002191	149.027	80.765	149.493	49.599	42.372	80.095	35.614	44.348
20	HEMBA1002192	15.125	24.996	24.821	15.373	16.495	12.778	5.075	13.566
	HEMBA1002195	57.368	28.635	52.828	16.254	22.600	31.843	32.995	29.791
	HEMBA1002196	14.884	12.040	36.633	16.632	15.443	16.808	12.691	17.451
	HEMBA1002199	24.937	13.539	27.878	15.728	17.426	10.639	19.664	8.927
	HEMBA1002204	9.525	5.141	14.869	6.784	4.619	10.508	27.818	9.410
	HEMBA1002208	80.832	44.154	68.317	68.994	37.453	74.064	81.827	112.820
25	HEMBA1002212	8.709	6.241	10.946	9.855	2.602	5.864	5.366	4.214
	HEMBA1002215	36.521	28.098	31.165	19.157	20.170	17.045	19.124	21.605
	HEMBA1002217	50.834	62.759	64.668	59.460	28.990	37.379	29.963	64.813
	HEMBA1002220	27.731	14.997	21.655	8.451	6.409	5.663	1.641	6.714
	HEMBA1002226	91.222	113.507	269.906	85.183	58.283	59.461	56.996	78.924
	HEMBA1002227	55.957	91.527	79.169	45.309	54.892	28.856	14.142	101.597
30	HEMBA1002229	170.518	117.589	418.739	112.916	121.703	85.889	63.450	90.668
	HEMBA1002237	47.252	49.329	124.721	32.838	24.807	23.399	15.399	26.185
	HEMBA1002239	103.363	107.010	190.830	54.740	72.381	50.451	45.873	70.581
	HEMBA1002241	70.729	45.281	81.541	43.824	30.449	54.328	62.401	55.767
	HEMBA1002253	25.559	27.877	35.744	16.605	13.851	18.938	18.391	14.286
	HEMBA1002257	6.344	5.787	15.404	4.338	1.225	7.119	4.456	3.711
35	HEMBA1002259	48.436	19.578	38.228	12.875	21.884	23.928	18.619	17.988
	HEMBA1002262	271.029	219.564	645.284	192.491	147.403	112.552	83.057	137.280
	HEMBA1002265	56.947	30.786	32.747	24.827	15.078	28.043	29.609	27.237
	HEMBA1002267	108.413	102.522	243.566	58.776	30.097	53.750	24.099	29.752
	HEMBA1002270	51.540	26.396	27.766	20.313	15.579	28.348	19.144	16.695
	HEMBA1002286	44.897	17.027	19.776	11.608	10.900	25.959	14.425	10.031
40	HEMBA1002290	46.449	29.289	34.095	19.879	8.778	26.461	22.368	13.907
	HEMBA1002302	152.883	48.105	92.158	43.064	48.204	66.899	80.872	58.027
	HEMBA1002304	6.050	6.814	19.492	7.905	4.038	7.098	5.307	1.737
	HEMBA1002307	100.402	132.737	29.225	24.612	24.050	42.355	39.076	37.573
	HEMBA1002316	504.772	93.620	191.534	46.814	134.386	238.599	265.167	88.087
	HEMBA1002319	2.868	2.456	9.670	0.933	4.715	4.369	5.615	4.579
45	HEMBA1002320	10.783	7.936	12.646	4.775	10.008	4.330	5.128	3.630
	HEMBA1002321	10.743	9.992	10.165	4.549	2.547	7.952	4.048	5.700
	HEMBA1002328	89.382	28.578	41.753	17.175	20.280	46.772	34.722	18.301
	HEMBA1002333	63.542	21.208	32.148	11.559	15.490	29.410	33.449	21.452
	HEMBA1002337	93.059	61.863	189.067	60.545	43.745	40.085	13.954	34.456
	HEMBA1002339	354.195	154.586	211.807	141.794	124.733	173.522	284.831	192.502
50	HEMBA1002341	116.488	29.538	63.800	15.812	36.228	50.321	45.600	28.278
	HEMBA1002348	6.882	4.859	18.593	4.056	4.011	5.790	4.476	4.606
	HEMBA1002349	6.318	7.600	13.603	5.490	2.590	6.088	1.306	3.748
	HEMBA1002353	14.497	13.001	12.249	10.426	11.840	13.977	17.141	16.760
	HEMBA1002356	104.283	29.278	40.945	24.892	20.681	42.242	45.108	28.190
	HEMBA1002357	64.855	251.508	219.532	215.420	68.836	206.728	136.339	380.371
55	HEMBA1002360	87.281	64.882	77.475	30.773	56.108	61.060	59.371	56.291
	HEMBA1002363	71.449	51.764	63.278	52.711	43.280	33.755	31.248	49.484

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Table 22

	HEMBA1002365	13.435	10.346	9.534	5.175	9.470	4.446	10.802	9.325
	HEMBA1002370	29.997	4.107	11.054	4.163	3.224	9.009	7.477	2.921
5	HEMBA1002374	91.498	18.475	11.325	15.862	10.204	18.275	29.203	18.856
	HEMBA1002376	186.416	75.425	127.578	52.056	38.450	99.590	90.190	86.994
	HEMBA1002377	81.350	41.908	63.893	37.221	23.657	110.374	162.156	50.770
	HEMBA1002380	189.521	137.466	477.021	137.908	491.500	90.431	81.778	127.767
	HEMBA1002381	195.037	101.891	447.953	125.938	88.330	90.756	70.293	106.965
	HEMBA1002384	35.247	22.319	42.496	14.694	19.780	40.126	24.243	12.399
10	HEMBA1002389	44.796	8.467	36.790	11.793	9.362	18.736	15.497	20.728
	HEMBA1002396	101.267	69.467	33.025	16.553	26.429	25.964	22.294	23.666
	HEMBA1002402	75.818	24.148	28.457	8.848	9.913	21.219	16.569	22.818
	HEMBA1002417	132.807	33.708	84.436	22.910	38.826	58.589	58.836	38.486
	HEMBA1002419	75.547	31.202	41.690	13.558	16.457	27.281	19.705	13.013
	HEMBA1002420	20.818	20.448	35.559	17.034	13.878	23.652	14.721	24.637
15	HEMBA1002421	23.903	25.285	59.023	7.957	14.189	24.230	61.011	21.849
	HEMBA1002423	12.762	11.755	25.941	12.938	14.177	14.263	12.495	7.512
	HEMBA1002424	111.995	32.293	46.657	24.424	25.667	42.797	41.513	31.249
	HEMBA1002426	60.617	23.489	45.906	20.305	25.173	30.860	37.738	21.223
	HEMBA1002430	24.143	3.128	4.900	1.517	4.594	3.316	8.552	3.069
	HEMBA1002439	59.808	37.476	93.025	16.789	23.324	47.857	33.099	27.888
20	HEMBA1002441	77.869	99.262	110.341	38.723	34.562	65.309	85.421	66.581
	HEMBA1002454	58.292	15.281	38.384	7.520	19.044	25.972	22.845	22.015
	HEMBA1002458	57.329	46.103	101.242	30.906	82.184	61.800	26.094	59.039
	HEMBA1002460	32.814	9.205	25.085	12.160	23.009	18.683	14.678	14.249
	HEMBA1002462	98.420	38.135	55.208	10.919	24.257	49.697	43.851	32.387
	HEMBA1002465	11.819	15.260	28.272	11.939	11.225	10.938	13.593	20.635
25	HEMBA1002469	129.538	61.348	120.187	39.999	39.213	76.320	69.012	86.309
	HEMBA1002475	3.180	5.116	4.323	2.230	1.467	4.495	10.058	15.691
	HEMBA1002477	93.696	64.730	238.114	55.207	43.349	42.487	29.532	52.786
	HEMBA1002480	210.023	58.823	84.566	37.478	45.060	106.554	97.791	70.487
	HEMBA1002481	104.499	76.474	222.903	71.502	68.097	67.421	42.334	82.875
	HEMBA1002486	81.465	42.269	169.291	49.953	40.852	39.475	29.153	26.233
30	HEMBA1002490	66.695	11.331	31.314	14.602	25.852	35.945	35.954	15.278
	HEMBA1002495	59.387	12.315	25.235	7.937	4.091	17.402	14.269	10.773
	HEMBA1002498	56.425	23.969	67.108	11.632	15.655	24.420	8.272	12.219
	HEMBA1002501	40.955	16.994	22.074	13.575	16.498	21.707	39.506	24.619
	HEMBA1002503	81.763	65.044	154.595	39.638	33.778	31.214	32.219	26.800
	HEMBA1002504	155.357	95.219	279.391	90.092	120.246	70.516	52.190	53.323
35	HEMBA1002508	99.443	88.234	259.961	107.085	79.039	59.181	59.924	61.423
	HEMBA1002513	50.560	22.902	30.431	26.184	20.783	30.500	32.903	22.864
	HEMBA1002515	60.938	23.064	25.098	16.172	5.716	20.264	20.643	13.727
	HEMBA1002524	94.350	36.789	56.675	25.998	28.978	49.840	57.148	25.205
	HEMBA1002538	116.609	19.632	26.764	12.798	20.203	16.422	17.588	15.759
	HEMBA1002542	81.641	81.952	188.888	54.986	41.864	32.890	30.719	38.321
40	HEMBA1002544	52.394	49.175	98.415	47.569	28.375	28.766	20.948	21.614
	HEMBA1002546	76.538	62.783	156.051	47.625	74.374	45.975	34.756	46.753
	HEMBA1002547	11.448	4.516	10.647	4.733	12.220	11.801	9.959	7.127
	HEMBA1002550	67.373	39.322	48.468	15.671	16.497	121.814	94.586	25.401
	HEMBA1002551	94.391	14.109	27.085	11.976	8.787	41.811	16.656	18.665
	HEMBA1002552	204.583	77.430	205.444	49.448	44.756	67.408	63.216	57.684
45	HEMBA1002555	25.583	16.987	6.743	7.020	5.608	14.795	10.111	7.416
	HEMBA1002558	92.744	77.405	245.703	59.079	41.247	33.253	41.617	41.270
	HEMBA1002561	53.810	51.725	155.895	34.956	27.689	17.264	10.138	27.124
	HEMBA1002562	15.261	10.822	15.435	8.259	18.723	12.036	9.056	10.429
	HEMBA1002568	24.946	17.442	35.354	17.552	10.576	15.262	16.158	22.328
	HEMBA1002569	112.340	34.133	118.192	37.823	57.431	54.936	26.164	27.309
50	HEMBA1002570	43.528	50.809	52.195	34.901	23.728	28.874	9.812	50.494
	HEMBA1002574	106.101	25.148	46.793	16.369	26.322	57.278	42.795	31.310
	HEMBA1002583	36.042	17.582	15.178	12.456	13.418	20.158	16.837	16.418
	HEMBA1002587	61.527	32.123	45.811	22.217	18.974	32.461	40.250	39.915
	HEMBA1002590	151.583	106.074	287.276	84.766	32.321	58.221	38.642	53.855
	HEMBA1002592	97.854	85.949	220.496	89.335	52.684	53.653	35.724	57.578
55	HEMBA1002595	146.016	25.688	60.427	24.156	31.909	86.770	79.174	26.760
	HEMBA1002609	97.442	41.926	56.054	29.427	35.650	35.839	44.688	47.074

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Table 23

	HEMBA1002617	26.792	86.617	59.446	73.277	12.909	21.055	16.612	49.136
	HEMBA1002619	101.131	25.998	30.959	15.921	21.913	40.814	35.003	28.108
	HEMBA1002621	14.592	25.845	18.082	8.927	7.391	8.869	5.823	12.283
5	HEMBA1002624	254.635	42.837	73.568	48.036	71.673	113.228	101.786	53.514
	HEMBA1002628	13.044	21.509	23.649	9.956	16.559	10.257	7.527	11.624
	HEMBA1002629	32.199	16.370	29.306	15.884	5.722	15.410	42.964	19.680
	HEMBA1002632	55.206	48.044	90.986	36.904	27.840	28.811	37.912	40.048
	HEMBA1002645	95.909	89.897	220.184	68.171	48.643	56.847	41.355	59.667
	HEMBA1002651	39.882	27.730	33.313	16.958	11.617	23.904	29.214	16.599
10	HEMBA1002652	107.869	24.187	46.646	22.248	22.950	37.216	25.827	23.282
	HEMBA1002659	133.320	62.916	259.854	57.860	53.172	46.511	45.193	47.291
	HEMBA1002661	88.495	68.014	154.170	35.196	22.499	26.290	22.314	23.727
	HEMBA1002666	34.174	20.511	39.391	17.036	15.852	20.842	19.202	13.470
	HEMBA1002667	155.384	166.244	164.658	29.523	520.013	30.234	25.612	83.769
	HEMBA1002673	71.650	40.718	73.822	33.403	39.914	40.129	38.619	22.532
15	HEMBA1002678	161.681	89.986	247.534	84.722	54.176	46.941	61.944	77.085
	HEMBA1002679	56.416	61.838	66.537	37.679	18.172	29.420	38.238	44.113
	HEMBA1002688	6.756	3.364	5.387	3.816	1.793	4.608	3.600	2.944
	HEMBA1002696	49.639	17.555	29.241	14.788	12.463	31.752	34.100	14.772
	HEMBA1002703	185.328	96.718	97.793	54.473	50.688	113.980	87.727	59.878
	HEMBA1002706	49.533	30.340	35.679	18.469	19.118	26.777	29.277	29.224
20	HEMBA1002712	52.878	59.111	110.506	41.591	43.597	39.604	30.872	26.457
	HEMBA1002715	149.045	59.858	87.643	47.473	41.264	95.279	127.808	65.580
	HEMBA1002716	23.142	6.155	17.077	15.783	23.557	19.064	27.647	7.572
	HEMBA1002718	26.328	19.063	41.749	26.345	16.735	28.367	26.822	21.779
	HEMBA1002728	117.984	88.950	293.019	81.290	43.679	65.830	46.321	57.003
	HEMBA1002730	131.726	26.862	67.877	28.628	36.686	49.987	50.380	43.208
25	HEMBA1002734	77.679	26.481	34.604	21.128	21.756	41.413	60.057	45.992
	HEMBA1002742	10.730	11.276	12.768	7.910	1.394	8.502	8.297	10.909
	HEMBA1002746	60.876	22.803	35.400	15.830	15.630	30.605	31.889	32.759
	HEMBA1002748	76.748	26.130	38.669	17.760	32.833	43.493	53.440	49.691
	HEMBA1002750	40.663	45.306	95.205	18.200	10.037	22.527	29.331	30.774
	HEMBA1002755	94.758	62.505	220.964	63.414	37.572	44.593	28.497	39.737
30	HEMBA1002759	13.935	3.117	8.450	3.792	2.291	8.714	10.261	5.285
	HEMBA1002763	430.941	88.931	172.920	71.623	88.921	195.471	197.995	118.224
	HEMBA1002767	65.682	25.272	35.782	14.035	19.183	31.497	33.393	18.347
	HEMBA1002768	100.803	57.554	59.457	35.570	28.006	43.770	40.930	38.215
	HEMBA1002769	103.210	30.236	54.098	17.099	19.753	35.636	41.922	26.940
35	HEMBA1002770	20.350	16.268	28.054	21.736	10.754	12.030	14.991	11.776
	HEMBA1002777	130.615	37.655	72.072	41.794	31.219	54.881	59.342	43.652
	HEMBA1002779	97.457	29.259	75.705	22.719	22.643	33.689	38.357	27.804
	HEMBA1002780	72.338	50.411	181.356	42.070	19.957	31.370	27.642	39.672
	HEMBA1002790	87.371	61.291	152.514	38.033	29.616	28.032	20.352	34.761
	HEMBA1002794	202.405	77.515	95.182	31.252	41.834	100.167	80.301	50.036
40	HEMBA1002798	9.194	21.334	22.468	20.281	12.823	11.156	11.647	15.735
	HEMBA1002801	10.311	4.603	11.704	3.190	4.420	3.016	13.829	6.693
	HEMBA1002810	42.583	45.313	55.088	35.416	29.480	60.935	44.046	51.794
	HEMBA1002816	52.084	37.823	56.994	35.902	25.574	33.389	50.974	49.045
	HEMBA1002818	321.516	100.826	187.799	84.893	81.695	152.339	171.186	117.409
	HEMBA1002820	139.924	107.278	533.137	90.533	79.745	59.869	54.302	52.958
45	HEMBA1002826	40.776	6.495	16.825	5.349	3.319	11.765	7.355	8.363
	HEMBA1002833	119.102	44.248	40.839	17.864	23.748	44.398	57.302	36.668
	HEMBA1002850	5.941	8.407	13.251	6.179	2.932	4.352	4.844	3.735
	HEMBA1002862	60.735	32.524	30.030	9.693	9.527	27.595	19.397	18.101
	HEMBA1002863	77.126	30.401	44.872	22.577	28.639	50.264	55.374	45.005
	HEMBA1002867	25.385	13.583	42.122	15.283	9.501	22.992	15.180	16.196
50	HEMBA1002876	101.249	55.603	38.073	36.480	23.017	53.318	51.363	56.689
	HEMBA1002886	9.474	14.188	23.688	7.657	11.980	14.640	6.432	18.574
	HEMBA1002896	78.580	27.420	49.774	16.754	20.366	36.684	35.283	42.662
	HEMBA1002913	126.001	32.845	58.138	14.590	22.846	54.873	56.608	38.801
	HEMBA1002921	63.378	25.443	37.615	15.333	19.054	28.881	37.595	34.298
	HEMBA1002924	65.007	29.109	104.125	15.411	19.920	31.099	23.998	19.182
55	HEMBA1002934	432.841	308.291	644.522	180.470	145.293	273.733	166.153	242.809
	HEMBA1002935	92.005	52.184	221.722	49.477	41.867	34.331	29.646	38.889

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Table 24

	HEMBA1002937	38.698	30.844	33.817	12.784	18.251	14.107	24.131	18.662
	HEMBA1002939	39.755	22.867	33.838	19.077	13.734	19.266	17.364	17.750
5	HEMBA1002944	53.762	33.349	51.861	21.860	18.241	23.920	21.112	16.286
	HEMBA1002951	38.716	29.783	39.196	19.808	29.614	19.702	28.422	21.177
	HEMBA1002954	24.907	8.542	20.941	9.265	13.758	15.056	7.297	13.424
	HEMBA1002962	86.680	62.578	220.246	62.027	37.753	44.037	31.812	41.725
	HEMBA1002968	105.871	78.850	221.414	65.545	40.380	43.093	38.816	50.281
	HEMBA1002970	48.034	34.741	30.834	18.482	6.639	17.125	23.514	36.180
10	HEMBA1002971	39.492	44.145	35.618	25.614	12.932	25.193	14.823	23.202
	HEMBA1002973	83.710	70.965	156.167	43.307	28.902	29.947	26.101	34.769
	HEMBA1002978	35.833	19.362	27.056	13.075	20.398	11.324	16.059	13.956
	HEMBA1002981	107.112	35.200	56.576	23.695	26.105	33.054	37.199	21.249
	HEMBA1002985	79.217	44.154	116.532	27.950	26.158	37.462	28.927	20.335
	HEMBA1002986	61.056	78.203	68.834	49.967	64.529	38.333	28.919	20.529
15	HEMBA1002988	37.307	36.609	71.802	20.621	8.965	16.229	15.956	22.796
	HEMBA1002992	97.720	72.656	79.841	50.454	34.289	57.004	61.291	91.211
	HEMBA1002995	51.473	63.779	55.081	36.903	25.007	38.630	19.510	48.529
	HEMBA1002997	41.734	70.805	29.264	27.019	33.664	24.201	18.442	25.973
	HEMBA1002999	35.341	16.456	18.357	11.146	7.034	12.086	13.966	9.970
	HEMBA1003004	55.654	33.689	35.194	15.119	16.204	20.866	27.891	20.055
20	HEMBA1003006	40.682	24.886	20.750	20.903	26.595	25.445	20.310	20.924
	HEMBA1003008	29.269	20.922	74.697	25.061	17.787	10.271	5.688	12.638
	HEMBA1003021	130.889	123.646	311.225	101.957	95.443	64.844	60.969	90.296
	HEMBA1003027	54.935	32.610	44.710	18.890	52.131	26.286	28.112	31.561
	HEMBA1003029	33.333	42.436	60.787	20.829	34.111	29.704	49.230	45.833
	HEMBA1003031	34.000	25.311	18.484	14.998	13.316	13.955	15.773	27.136
25	HEMBA1003032	171.114	46.990	71.365	23.640	50.526	81.278	84.036	46.352
	HEMBA1003033	168.563	118.674	378.771	109.222	90.670	70.150	55.336	77.819
	HEMBA1003034	173.162	127.221	484.135	108.238	85.630	61.733	36.799	63.312
	HEMBA1003035	11.693	5.195	9.305	4.478	5.058	11.024	2.553	4.409
	HEMBA1003037	261.159	89.481	145.321	58.521	65.732	104.677	89.571	71.674
	HEMBA1003041	103.945	105.085	291.931	93.188	75.193	53.097	39.564	58.217
30	HEMBA1003046	40.254	39.965	46.856	26.192	11.615	35.659	25.378	32.416
	HEMBA1003047	127.888	49.341	139.750	32.219	32.320	57.450	33.390	28.702
	HEMBA1003048	87.433	35.962	42.305	12.040	20.442	39.108	29.597	21.461
	HEMBA1003064	6.366	8.535	6.201	8.809	4.415	7.239	3.330	7.829
	HEMBA1003067	55.833	34.508	77.097	26.154	20.523	28.755	24.783	17.488
	HEMBA1003071	54.728	22.509	28.869	17.461	19.647	20.624	22.285	19.438
35	HEMBA1003072	62.421	30.769	31.225	26.146	22.906	21.483	17.616	19.134
	HEMBA1003076	111.254	51.085	78.972	37.151	40.422	49.911	47.023	64.737
	HEMBA1003077	36.471	15.407	24.522	8.009	8.453	18.661	13.797	5.837
	HEMBA1003078	34.143	38.741	77.906	31.907	37.169	17.933	17.439	18.923
	HEMBA1003079	28.559	39.563	41.646	26.110	25.889	25.576	18.026	24.526
	HEMBA1003083	61.036	48.635	169.439	52.788	60.016	41.611	29.619	67.469
40	HEMBA1003086	49.032	40.488	154.409	29.869	12.063	16.544	16.039	19.219
	HEMBA1003090	34.778	14.860	23.758	12.710	24.132	15.848	25.027	14.265
	HEMBA1003094	184.999	43.363	72.116	30.096	53.636	78.251	84.551	34.775
	HEMBA1003096	31.440	18.030	25.774	10.290	11.781	14.033	27.791	11.348
	HEMBA1003098	36.774	64.970	88.562	34.074	24.271	25.656	18.003	31.059
	HEMBA1003101	55.716	24.121	22.316	11.682	13.163	21.315	25.117	15.689
45	HEMBA1003109	48.411	21.093	39.285	21.315	21.724	27.826	31.034	21.809
	HEMBA1003114	41.101	24.786	22.792	14.164	14.657	18.320	15.152	16.038
	HEMBA1003117	22.939	13.535	20.191	6.812	10.538	14.917	18.015	12.566
	HEMBA1003120	24.531	24.408	55.805	26.574	13.838	15.423	15.080	21.728
	HEMBA1003129	40.276	46.792	104.463	37.995	37.989	21.990	26.267	38.207
50	HEMBA1003133	50.080	22.873	35.022	15.164	20.000	21.592	25.551	27.656
	HEMBA1003136	146.630	23.706	65.990	18.301	31.049	69.754	51.669	25.346
	HEMBA1003142	69.008	47.867	130.557	32.955	30.384	25.274	27.118	29.493
	HEMBA1003148	59.282	20.084	32.740	18.292	18.973	32.206	22.003	24.674
	HEMBA1003151	53.856	20.003	51.824	13.233	9.854	27.114	22.251	13.546
	HEMBA1003152	20.577	9.803	19.388	10.017	5.761	31.586	23.227	6.853
	HEMBA1003157	16.477	9.272	16.246	9.919	17.605	7.547	10.156	10.181
55	HEMBA1003166	293.814	257.380	671.361	260.521	221.325	137.459	148.208	199.758
	HEMBA1003171	17.730	8.702	16.527	6.499	6.963	7.361	5.733	7.164

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Table 25

	HEMBA1003175	38.620	40.445	100.302	29.594	17.624	21.152	13.386	15.936
	HEMBA1003179	63.835	33.869	50.631	27.163	25.502	35.500	39.052	37.713
5	HEMBA1003186	100.461	75.611	231.787	75.781	58.278	54.222	55.862	61.615
	HEMBA1003196	36.422	27.557	45.633	20.623	18.740	21.756	30.501	35.864
	HEMBA1003197	8.462	9.564	5.534	5.965	4.051	3.138	7.054	7.066
	HEMBA1003199	34.650	18.409	81.183	15.696	16.799	9.492	17.381	15.917
	HEMBA1003202	79.337	59.764	236.822	43.286	41.820	31.106	32.936	45.183
	HEMBA1003204	66.523	56.272	172.818	48.560	31.451	33.193	27.421	28.849
10	HEMBA1003210	23.713	52.768	35.498	5.529	38.451	16.353	59.417	17.563
	HEMBA1003212	126.394	90.709	372.474	74.164	62.392	59.663	45.714	54.363
	HEMBA1003218	19.415	13.105	13.670	6.371	4.792	13.681	10.789	6.536
	HEMBA1003220	81.171	86.642	147.453	89.495	42.391	47.586	54.647	123.019
	HEMBA1003222	25.803	22.891	28.577	7.994	11.404	10.413	9.856	14.985
	HEMBA1003225	105.735	21.238	40.848	11.586	20.280	48.243	44.574	19.547
15	HEMBA1003229	30.394	26.363	41.333	22.998	17.475	14.707	20.154	19.749
	HEMBA1003230	69.643	70.015	42.439	31.176	20.775	56.815	40.191	75.238
	HEMBA1003235	44.989	43.337	105.267	33.038	19.405	20.834	22.018	29.856
	HEMBA1003236	8.677	17.896	8.735	7.270	7.328	17.286	5.295	18.441
	HEMBA1003250	7.260	12.598	12.993	4.750	4.815	7.242	5.982	4.378
	HEMBA1003252	56.274	51.495	65.197	28.241	33.512	44.917	62.506	60.076
20	HEMBA1003257	71.751	16.083	40.414	13.391	19.441	38.988	28.614	19.028
	HEMBA1003268	19.492	18.996	46.948	14.167	12.769	11.524	8.622	17.414
	HEMBA1003273	48.113	38.933	125.242	29.404	21.135	22.989	17.240	24.704
	HEMBA1003276	36.279	34.802	113.584	23.812	17.208	20.437	14.685	26.145
	HEMBA1003277	31.363	12.827	21.514	10.462	11.287	13.206	16.182	14.465
	HEMBA1003278	36.998	24.906	71.222	17.479	15.791	16.787	10.948	17.841
25	HEMBA1003280	50.716	16.000	38.057	16.933	20.792	37.901	30.931	31.493
	HEMBA1003281	66.732	21.393	32.728	15.032	18.415	26.844	28.577	24.898
	HEMBA1003284	9.746	8.482	12.941	5.779	5.747	5.813	3.545	3.499
	HEMBA1003286	69.502	35.947	60.729	21.827	29.473	52.233	50.283	47.695
	HEMBA1003291	13.248	9.951	10.909	3.504	18.100	6.561	6.341	7.647
	HEMBA1003294	69.599	52.239	168.555	39.127	38.460	40.377	24.057	27.486
30	HEMBA1003296	61.933	31.456	37.947	21.206	23.199	23.249	34.580	37.768
	HEMBA1003304	7.117	5.972	8.976	6.154	8.839	4.199	3.461	3.227
	HEMBA1003306	17.590	15.590	22.443	8.410	11.282	8.448	6.333	9.387
	HEMBA1003309	6.845	10.103	12.198	14.015	7.776	8.709	3.955	18.326
	HEMBA1003314	637.052	210.608	238.618	105.098	198.106	299.884	273.738	171.516
35	HEMBA1003315	83.736	51.612	84.690	32.381	29.482	56.694	53.105	54.024
	HEMBA1003322	108.401	88.539	256.570	51.502	51.083	44.130	42.804	45.519
	HEMBA1003326	42.723	20.581	14.759	11.799	7.780	18.087	12.420	9.516
	HEMBA1003327	61.811	36.702	87.698	28.181	19.784	18.596	17.453	18.377
	HEMBA1003328	53.406	51.712	114.941	36.926	25.000	18.669	22.079	32.865
	HEMBA1003330	108.955	82.099	207.708	73.413	52.244	50.838	55.920	55.390
	HEMBA1003348	121.625	110.275	137.182	94.209	99.717	67.000	43.513	80.023
40	HEMBA1003369	5.861	23.644	14.930	4.979	1.726	9.064	3.020	5.373
	HEMBA1003370	315.016	197.956	369.117	140.044	139.216	140.758	150.458	124.948
	HEMBA1003373	50.135	31.291	53.330	17.430	5.513	19.164	8.117	19.638
	HEMBA1003376	174.269	170.290	519.668	126.099	89.798	108.226	81.818	107.084
	HEMBA1003380	43.015	24.657	74.071	29.281	24.407	19.711	13.485	20.047
	HEMBA1003384	25.555	30.071	68.079	15.389	9.455	11.810	8.800	14.281
45	HEMBA1003387	6.515	2.588	2.697	1.577	1.109	1.803	1.986	3.464
	HEMBA1003392	111.457	25.882	42.253	17.323	29.007	50.086	29.337	23.550
	HEMBA1003395	16.068	18.666	35.483	15.254	9.873	10.355	6.207	12.514
	HEMBA1003399	45.227	21.480	37.035	19.231	15.354	19.471	27.860	34.116
	HEMBA1003400	116.210	36.907	58.706	24.811	49.133	53.819	60.041	53.109
50	HEMBA1003402	32.500	16.239	27.864	8.795	12.867	17.141	11.617	14.596
	HEMBA1003403	60.260	43.377	46.720	20.221	26.579	36.738	44.891	45.870
	HEMBA1003408	196.676	49.687	70.460	29.354	50.910	84.358	77.062	46.433
	HEMBA1003412	104.813	43.934	55.699	47.250	43.763	81.953	59.463	47.139
	HEMBA1003417	22.445	13.970	25.036	8.433	7.282	10.593	5.696	11.032
	HEMBA1003418	57.411	57.397	76.232	97.795	45.336	43.450	22.206	90.604
55	HEMBA1003420	29.838	15.856	201.831	11.319	8.067	11.379	12.938	14.721
	HEMBA1003425	17.466	15.895	21.662	4.733	6.723	8.483	10.838	9.083
	HEMBA1003433	23.931	18.435	24.576	12.136	10.421	10.074	11.092	11.581

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Table 26

	HEMBA1003440	91.727	41.727	39.257	19.755	26.941	45.998	31.620	35.845
	HEMBA1003442	7.090	22.535	10.452	33.897	10.259	15.118	7.093	14.790
5	HEMBA1003447	82.161	36.670	48.248	26.789	18.587	41.591	42.314	35.065
	HEMBA1003453	50.472	26.692	25.954	16.130	11.252	16.584	28.534	21.256
	HEMBA1003461	55.687	25.328	42.686	17.261	18.855	27.281	22.795	17.854
	HEMBA1003463	40.102	23.311	34.469	13.456	19.704	20.277	16.984	18.124
	HEMBA1003465	92.245	40.963	61.816	28.410	36.051	39.389	40.220	36.851
	HEMBA1003480	114.075	114.841	266.076	76.368	67.942	56.459	51.589	62.191
10	HEMBA1003485	44.403	28.836	33.659	14.371	8.636	26.284	16.036	14.582
	HEMBA1003487	42.939	15.463	23.730	9.752	15.729	24.902	21.136	16.494
	HEMBA1003492	31.026	21.538	56.674	14.934	12.014	12.082	9.567	14.655
	HEMBA1003494	97.366	260.496	50.174	48.821	12.504	74.554	20.623	180.841
	HEMBA1003497	39.000	17.943	24.659	11.432	13.881	21.376	18.562	6.072
	HEMBA1003503	54.774	21.486	28.175	12.948	17.154	30.911	36.463	16.806
15	HEMBA1003511	18.672	14.740	43.023	11.794	13.330	8.925	16.405	11.615
	HEMBA1003528	385.123	191.234	239.319	81.329	123.915	213.945	179.430	96.672
	HEMBA1003530	43.820	12.384	23.693	10.695	21.216	20.067	28.030	16.204
	HEMBA1003531	111.104	73.542	215.578	67.833	214.022	56.139	50.217	66.992
	HEMBA1003532	145.137	62.379	83.827	37.506	53.388	90.314	77.728	60.515
	HEMBA1003538	61.123	20.746	32.949	11.160	19.286	34.305	28.231	13.837
20	HEMBA1003545	21.489	10.501	20.608	5.904	7.197	10.239	6.617	8.168
	HEMBA1003546	31.371	32.365	28.613	13.365	226.243	16.427	16.554	24.821
	HEMBA1003548	4.466	8.124	9.845	4.563	7.542	6.155	5.647	8.387
	HEMBA1003553	79.837	51.515	50.379	23.327	28.564	49.154	63.525	48.955
	HEMBA1003555	20.066	8.873	13.692	4.762	3.684	10.112	10.962	6.521
	HEMBA1003556	57.280	36.399	128.391	29.283	16.426	19.257	18.121	24.622
25	HEMBA1003560	9.290	4.426	2.529	2.848	1.767	2.983	6.207	6.539
	HEMBA1003565	42.648	29.588	20.996	8.344	13.984	21.927	21.847	22.043
	HEMBA1003568	7.244	1.649	7.712	2.430	3.763	3.172	2.836	2.592
	HEMBA1003569	25.048	20.536	23.764	33.957	13.740	16.235	19.512	16.518
	HEMBA1003571	111.721	94.378	326.335	84.368	71.788	50.029	48.011	59.960
	HEMBA1003579	3.135	7.399	15.353	6.553	8.948	2.872	9.198	6.421
30	HEMBA1003580	274.105	50.292	102.103	26.686	59.875	128.943	110.375	35.695
	HEMBA1003581	112.013	31.295	94.083	21.641	36.215	54.336	50.711	21.238
	HEMBA1003591	97.076	64.326	77.160	89.876	47.882	53.615	40.656	45.172
	HEMBA1003595	32.697	22.842	84.629	19.075	11.339	6.305	5.581	18.085
	HEMBA1003597	48.561	25.846	108.491	20.931	15.952	19.375	17.580	20.153
	HEMBA1003598	49.728	20.134	22.468	12.142	11.688	18.934	21.743	15.025
35	HEMBA1003600	32.772	35.099	56.905	26.268	29.290	38.873	53.305	56.783
	HEMBA1003602	18.248	10.116	16.162	6.182	10.970	8.064	14.736	17.188
	HEMBA1003604	205.949	53.579	69.723	24.549	49.902	105.181	98.166	47.144
	HEMBA1003610	140.996	29.255	95.048	15.492	103.150	72.233	54.670	30.688
	HEMBA1003615	57.258	20.035	34.102	12.808	16.022	24.378	18.759	20.876
	HEMBA1003617	48.414	20.375	29.789	12.148	22.291	18.199	18.770	18.242
40	HEMBA1003620	52.899	22.318	45.502	19.575	19.962	25.239	39.072	29.451
	HEMBA1003621	102.827	102.094	226.373	80.194	64.742	58.874	67.142	60.680
	HEMBA1003622	19.815	13.838	25.009	16.055	8.339	12.261	15.369	13.833
	HEMBA1003630	20.008	16.381	30.244	13.871	5.573	9.992	10.303	11.422
	HEMBA1003637	37.880	29.848	106.379	23.251	18.468	17.181	12.409	18.500
	HEMBA1003640	39.068	31.672	100.901	22.572	22.223	21.513	17.417	20.420
45	HEMBA1003645	25.820	19.380	48.445	13.481	9.247	12.142	54.230	5.711
	HEMBA1003646	38.243	16.329	22.003	9.624	13.311	24.606	19.177	19.938
	HEMBA1003647	10.261	10.718	12.323	7.860	7.892	7.607	7.882	10.058
	HEMBA1003656	40.171	31.269	66.874	28.981	19.429	18.898	23.172	30.178
	HEMBA1003662	25.325	17.011	19.352	6.387	10.041	10.909	14.055	18.544
	HEMBA1003665	23.086	11.187	17.407	5.803	8.262	9.774	15.332	13.851
50	HEMBA1003667	304.975	209.929	337.134	96.636	131.792	179.317	140.769	174.256
	HEMBA1003670	12.944	8.894	15.235	3.344	2.565	7.057	6.425	7.073
	HEMBA1003674	143.262	32.196	51.919	33.863	62.734	66.675	65.424	47.173
	HEMBA1003677	80.516	45.946	220.695	45.985	43.474	38.916	30.594	46.808
	HEMBA1003679	25.325	7.795	16.167	6.727	5.941	12.433	12.034	11.720
	HEMBA1003680	42.317	25.723	33.794	24.664	23.985	25.419	38.990	39.343
55	HEMBA1003684	18.273	10.175	17.733	13.315	4.937	9.099	10.182	10.574
	HEMBA1003690	115.021	65.531	75.876	46.324	43.039	71.797	85.431	56.592

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Table 27

	HEMBA1003692	83.253	96.347	194.372	63.188	40.872	47.354	39.288	42.644
	HEMBA1003702	88.125	35.028	48.251	23.719	29.023	42.879	46.956	36.550
5	HEMBA1003711	93.732	50.280	140.199	32.886	33.424	47.500	41.959	36.807
	HEMBA1003714	75.923	20.696	37.340	14.414	28.237	32.029	29.145	16.214
	HEMBA1003715	54.160	54.486	142.871	31.894	31.122	28.832	20.640	26.672
	HEMBA1003717	70.553	38.574	120.922	45.101	29.491	29.344	27.200	38.418
	HEMBA1003720	83.687	94.829	133.285	55.896	49.519	43.330	22.099	41.137
	HEMBA1003725	46.157	55.932	71.704	30.085	21.305	22.378	18.643	31.573
10	HEMBA1003728	103.795	35.668	58.184	16.485	21.818	42.286	37.790	34.280
	HEMBA1003729	49.957	21.508	47.663	20.231	15.376	18.567	21.294	17.427
	HEMBA1003732	13.069	1.953	6.558	3.228	2.195	3.652	3.024	4.336
	HEMBA1003733	52.409	32.781	76.684	22.919	83.426	18.921	13.867	14.220
	HEMBA1003742	40.426	20.265	50.667	26.589	21.518	42.057	44.130	24.802
	HEMBA1003743	26.918	22.118	23.392	18.886	18.530	12.506	17.162	18.069
15	HEMBA1003758	110.630	126.359	315.104	79.435	58.130	58.587	34.868	73.429
	HEMBA1003760	78.949	0.000	26.318	15.194	14.440	32.057	34.468	19.471
	HEMBA1003764	45.855	30.390	82.720	23.891	19.630	164.051	37.797	57.861
	HEMBA1003769	87.589	47.227	62.942	27.144	32.047	46.499	39.296	38.944
	HEMBA1003773	63.842	14.722	21.132	12.002	9.850	33.904	29.817	13.165
	HEMBA1003783	17.751	16.975	23.942	16.465	13.884	6.842	9.757	20.650
20	HEMBA1003784	13.500	17.233	21.849	13.856	12.436	17.394	11.099	13.140
	HEMBA1003794	386.642	303.008	322.299	109.371	145.316	286.778	287.377	239.938
	HEMBA1003799	39.392	23.099	29.603	15.022	13.775	16.550	24.428	19.403
	HEMBA1003803	63.548	21.899	44.323	20.132	18.580	28.795	24.744	35.938
	HEMBA1003804	80.382	26.816	48.558	16.154	27.867	31.087	37.611	22.634
	HEMBA1003805	103.669	42.485	42.930	19.994	36.377	43.797	32.147	28.376
25	HEMBA1003807	21.717	13.940	25.512	9.492	6.870	9.649	8.812	7.611
	HEMBA1003810	20.102	11.572	7.558	20.338	17.855	7.640	4.451	6.585
	HEMBA1003827	432.964	219.520	240.291	155.416	219.584	266.037	283.204	241.127
	HEMBA1003836	177.311	135.831	482.334	146.466	136.063	93.790	92.728	122.237
	HEMBA1003838	223.674	185.295	641.368	134.002	79.993	115.711	87.137	118.957
	HEMBA1003843	13.867	10.178	27.409	17.850	21.104	13.382	11.701	13.634
30	HEMBA1003846	133.994	57.556	58.738	34.962	50.550	56.395	40.861	60.253
	HEMBA1003856	27.378	13.868	16.982	14.248	8.662	11.259	9.145	9.934
	HEMBA1003857	101.908	95.527	253.525	75.110	52.628	51.958	45.837	48.871
	HEMBA1003864	52.130	18.071	24.567	9.568	13.009	16.810	29.271	16.795
	HEMBA1003866	27.257	12.805	22.440	12.069	15.414	19.103	9.229	7.524
	HEMBA1003868	95.701	54.991	58.923	31.090	41.733	69.461	48.174	43.486
35	HEMBA1003879	62.950	44.572	159.217	48.098	42.446	37.097	36.010	45.824
	HEMBA1003880	134.462	70.074	103.271	50.699	47.956	67.668	44.498	30.581
	HEMBA1003884	99.190	48.465	73.499	34.796	54.399	57.269	63.551	68.830
	HEMBA1003885	77.675	69.096	172.968	55.129	49.424	41.309	24.247	31.596
	HEMBA1003887	60.203	22.185	33.582	16.896	21.181	29.281	31.275	22.835
	HEMBA1003890	12.753	8.056	15.506	7.762	16.057	139.271	387.408	5.124
	HEMBA1003893	386.525	281.955	515.307	187.300	180.355	212.964	137.297	122.335
40	HEMBA1003896	411.418	232.899	382.182	144.104	165.806	233.857	186.700	143.577
	HEMBA1003902	39.732	39.491	114.984	20.297	23.509	16.793	14.124	20.479
	HEMBA1003904	32.775	21.109	45.629	10.006	13.109	14.294	24.342	17.444
	HEMBA1003908	8.660	8.873	15.689	7.298	15.429	6.307	2.267	5.699
	HEMBA1003926	132.636	253.614	316.882	183.017	124.195	147.955	105.962	360.995
	HEMBA1003937	87.005	63.862	200.940	40.687	36.238	35.284	29.695	40.418
45	HEMBA1003939	28.064	25.844	35.675	20.306	20.378	19.070	16.457	15.626
	HEMBA1003940	27.800	13.368	18.045	10.235	10.394	14.633	17.733	9.868
	HEMBA1003941	57.997	16.835	24.582	17.381	15.884	23.428	19.757	13.795
	HEMBA1003942	38.168	19.747	45.852	32.660	22.333	24.695	10.791	21.900
	HEMBA1003945	59.457	32.900	46.079	23.037	21.163	36.632	32.279	26.903
	HEMBA1003949	12.870	13.019	20.678	7.159	38.521	442.120	272.494	21.625
50	HEMBA1003950	8.366	8.726	5.814	3.195	4.756	3.396	8.814	5.401
	HEMBA1003953	23.527	10.310	11.872	9.390	8.494	10.637	10.973	5.252
	HEMBA1003958	131.082	90.718	253.084	74.499	85.036	62.450	34.852	86.629
	HEMBA1003959	12.105	11.228	18.520	6.548	7.960	18.122	12.612	10.591
	HEMBA1003960	53.133	29.785	31.879	18.932	16.178	21.708	32.094	35.333
	HEMBA1003966	58.245	19.415	68.506	20.791	26.975	28.975	27.825	25.303
55	HEMBA1003967	1.859	3.908	9.364	6.033	4.054	4.384	4.208	4.986

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Table 28

	HEMBA1003968	40.219	26.894	55.357	16.296	14.511	28.531	22.648	15.420
	HEMBA1003974	147.167	439.547	139.030	117.010	33.973	54.122	29.356	338.820
5	HEMBA1003976	20.167	17.809	13.159	9.187	5.748	6.820	6.962	10.367
	HEMBA1003977	32.761	12.350	24.212	6.558	6.776	12.413	17.016	9.367
	HEMBA1003978	40.554	13.858	10.812	11.585	11.203	23.881	20.489	17.488
	HEMBA1003981	65.803	34.462	71.399	26.801	31.348	48.051	31.355	42.728
	HEMBA1003982	15.104	89.360	20.946	18.086	1.620	3.781	3.102	64.356
	HEMBA1003985	15.199	10.866	21.715	9.199	1.517	8.041	5.977	7.569
10	HEMBA1003987	48.695	30.080	108.473	25.632	23.222	28.008	21.302	24.940
	HEMBA1003989	47.841	51.466	128.889	32.288	24.298	24.627	15.392	23.174
	HEMBA1004000	36.424	35.098	34.843	16.292	19.541	20.604	16.803	21.872
	HEMBA1004006	8.411	42.393	12.931	2.863	3.395	0.000	4.943	9.742
	HEMBA1004007	135.300	114.014	286.000	90.971	64.473	74.153	71.985	79.319
	HEMBA1004010	58.331	152.845	38.786	18.676	18.819	35.229	31.514	80.599
15	HEMBA1004011	62.306	16.294	38.336	12.356	13.756	29.683	26.091	7.986
	HEMBA1004012	47.010	38.053	139.110	42.415	22.159	34.340	27.215	32.550
	HEMBA1004015	24.416	26.249	27.372	12.243	13.962	25.082	25.133	12.269
	HEMBA1004024	149.457	114.788	479.037	80.679	77.896	75.066	57.366	93.859
	HEMBA1004029	81.485	31.944	43.520	19.897	20.191	38.768	36.482	19.376
	HEMBA1004038	26.629	15.823	19.708	12.109	7.832	14.400	12.855	17.771
20	HEMBA1004042	8.177	10.678	12.830	6.512	11.484	7.963	11.320	10.405
	HEMBA1004045	24.675	30.855	37.128	20.069	23.538	15.509	17.299	17.447
	HEMBA1004048	95.795	48.977	78.760	36.608	40.779	45.132	47.334	63.844
	HEMBA1004049	55.947	543.954	47.428	49.034	19.297	56.209	23.320	68.865
	HEMBA1004051	69.776	31.608	51.948	13.046	25.684	38.632	30.423	32.553
	HEMBA1004053	29.222	70.670	84.481	24.394	15.007	23.414	13.218	23.973
25	HEMBA1004055	39.564	23.202	34.928	8.151	5.353	28.619	15.237	14.807
	HEMBA1004056	136.121	122.072	413.353	75.363	81.883	66.439	41.004	85.794
	HEMBA1004060	17.642	11.826	29.995	9.507	4.910	13.895	8.679	8.388
	HEMBA1004061	17.144	13.460	20.009	16.913	8.228	14.145	12.424	5.810
	HEMBA1004067	165.029	79.589	104.390	62.419	50.783	89.115	94.004	91.850
	HEMBA1004071	28.405	34.722	37.707	19.775	14.692	17.342	23.864	27.554
30	HEMBA1004074	128.445	51.388	148.050	35.606	37.851	50.216	53.461	46.373
	HEMBA1004078	26.126	14.714	20.940	9.721	16.211	17.398	17.388	14.057
	HEMBA1004085	42.006	24.067	36.862	15.417	17.609	19.555	28.362	21.993
	HEMBA1004088	27.330	49.843	21.238	43.213	24.232	16.260	12.409	22.262
	HEMBA1004097	45.296	15.292	27.795	13.971	26.928	26.002	33.192	19.361
	HEMBA1004100	40.930	37.210	48.942	23.245	10.184	25.744	21.452	28.594
35	HEMBA1004103	101.036	101.281	184.668	64.176	44.322	55.385	41.050	40.000
	HEMBA1004110	89.903	65.107	57.751	43.841	27.836	21.315	27.631	34.280
	HEMBA1004111	171.907	134.108	296.310	95.474	115.874	78.450	80.011	98.760
	HEMBA1004124	177.408	71.838	103.065	37.865	46.198	68.531	109.364	77.083
	HEMBA1004130	64.543	54.797	171.602	50.628	35.382	25.601	19.599	23.097
	HEMBA1004131	41.654	24.184	33.975	26.913	23.365	28.790	20.022	24.999
40	HEMBA1004132	55.906	42.840	162.243	42.708	30.251	28.863	19.780	22.237
	HEMBA1004133	64.624	30.838	38.522	29.390	20.897	28.027	28.747	33.333
	HEMBA1004138	61.197	21.853	23.858	17.376	9.337	30.080	17.345	22.082
	HEMBA1004143	15.715	9.656	21.209	10.565	10.539	14.067	11.441	9.994
	HEMBA1004146	40.893	21.789	90.537	30.633	32.870	23.542	14.368	20.982
	HEMBA1004148	59.990	18.796	22.167	11.049	17.531	18.309	29.374	22.628
45	HEMBA1004149	16.284	11.131	18.385	7.758	7.634	7.677	5.890	13.683
	HEMBA1004150	5.223	4.403	4.468	3.044	2.553	2.158	2.062	2.260
	HEMBA1004154	111.110	40.836	69.965	31.437	46.253	58.472	62.983	47.866
	HEMBA1004164	139.670	107.565	315.189	77.326	47.327	57.372	46.726	67.257
	HEMBA1004168	24.042	16.530	18.698	9.347	9.400	13.838	3.054	13.060
	HEMBA1004199	22.894	9.047	10.461	8.631	7.704	7.849	6.889	7.253
50	HEMBA1004200	33.301	51.362	83.462	26.185	27.548	17.580	17.235	32.109
	HEMBA1004201	54.766	23.783	32.370	17.449	21.835	22.123	25.993	20.006
	HEMBA1004202	14.526	10.484	12.784	6.804	5.704	9.594	8.672	11.673
	HEMBA1004203	47.655	20.140	34.882	13.604	14.171	19.946	16.079	18.151
	HEMBA1004207	6.344	3.206	11.421	3.936	6.145	5.704	21.692	7.780
	HEMBA1004210	33.071	43.543	33.120	16.340	41.396	21.814	19.639	15.015
55	HEMBA1004225	73.182	63.749	226.133	59.565	43.156	32.703	25.781	40.078
	HEMBA1004227	83.820	31.222	42.541	16.931	17.786	28.177	25.468	30.978

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	HEMBA1004235	99.954	57.144	62.536	27.672	34.345	69.613	47.182	38.807
	HEMBA1004237	27.504	21.542	17.029	18.289	11.697	19.212	12.031	16.922
5	HEMBA1004238	79.210	38.454	102.493	34.130	27.841	36.089	27.438	34.578
	HEMBA1004241	5.653	2.654	7.035	2.556	1.072	2.912	4.422	1.294
	HEMBA1004242	256.862	65.757	191.327	80.010	76.455	85.478	89.242	62.567
	HEMBA1004243	72.699	55.276	60.764	28.287	47.148	36.800	28.491	47.743
	HEMBA1004246	44.915	30.967	100.300	22.414	17.109	15.470	12.686	18.700
	HEMBA1004247	66.750	16.238	24.674	18.889	22.763	31.897	38.415	17.377
10	HEMBA1004248	13.953	18.412	17.581	11.953	11.378	14.538	12.794	9.562
	HEMBA1004250	24.439	10.494	10.631	6.401	5.142	14.218	12.652	11.966
	HEMBA1004252	37.349	20.650	22.246	9.949	9.550	14.570	21.841	18.200
	HEMBA1004260	10.994	19.320	16.415	15.707	20.374	13.845	11.265	19.838
	HEMBA1004264	22.716	14.715	13.358	7.615	5.234	12.282	15.089	11.397
	HEMBA1004267	235.310	195.750	654.331	171.071	174.292	115.073	102.973	144.125
15	HEMBA1004272	28.776	19.025	23.678	13.063	12.012	15.529	14.123	14.593
	HEMBA1004274	62.157	50.491	53.598	30.356	36.472	42.005	58.020	51.617
	HEMBA1004275	70.423	38.514	45.176	17.443	18.132	34.031	36.295	22.171
	HEMBA1004276	33.630	4.481	14.011	9.548	9.099	14.035	10.406	8.615
	HEMBA1004279	16.536	11.082	13.356	14.834	7.333	10.255	8.919	12.068
	HEMBA1004284	29.688	30.297	64.483	13.658	17.646	17.327	17.630	13.770
20	HEMBA1004286	32.471	16.566	18.049	12.391	6.773	17.625	23.811	13.547
	HEMBA1004289	81.573	62.930	165.571	49.704	34.785	37.379	28.939	41.740
	HEMBA1004293	72.465	34.902	48.669	32.705	17.408	57.764	53.695	45.065
	HEMBA1004295	37.595	12.116	29.975	11.634	5.514	25.018	23.797	20.926
	HEMBA1004302	10.880	5.912	7.885	10.025	5.190	6.060	5.264	9.355
	HEMBA1004306	426.811	177.321	335.168	107.646	123.947	256.397	251.772	134.005
25	HEMBA1004312	37.953	30.864	105.533	30.747	25.847	16.140	16.283	24.272
	HEMBA1004314	29.396	23.332	95.584	22.179	18.544	11.075	8.804	20.974
	HEMBA1004321	47.670	29.150	105.316	35.655	23.139	31.309	29.736	47.858
	HEMBA1004323	87.295	65.931	221.440	44.690	41.425	36.609	34.117	39.135
	HEMBA1004327	65.869	21.284	21.540	11.985	14.419	27.213	27.030	20.118
	HEMBA1004329	67.920	44.687	132.755	32.977	21.556	32.356	17.478	26.773
30	HEMBA1004330	8.785	7.655	16.827	7.164	3.843	9.511	7.660	4.615
	HEMBA1004334	16.438	21.355	31.680	15.109	26.670	13.368	10.581	13.568
	HEMBA1004335	204.961	102.859	325.226	69.979	64.392	78.772	71.641	83.525
	HEMBA1004341	186.677	30.208	61.439	15.995	41.404	87.221	89.558	40.224
	HEMBA1004344	261.676	76.316	123.332	42.705	51.432	26.797	42.054	59.071
	HEMBA1004347	65.249	32.610	97.858	37.038	21.953	33.115	33.526	36.846
35	HEMBA1004349	22.353	35.727	29.441	19.803	18.786	23.126	19.103	18.719
	HEMBA1004352	75.508	65.544	237.050	49.039	34.141	32.597	28.166	46.343
	HEMBA1004353	54.322	66.042	132.169	40.563	27.380	39.551	30.556	56.886
	HEMBA1004354	43.687	29.352	79.264	22.784	20.533	21.755	16.860	22.429
	HEMBA1004356	44.730	22.201	27.487	10.404	8.280	22.159	16.039	15.038
	HEMBA1004360	91.412	28.429	71.634	26.232	36.259	59.602	38.361	50.410
40	HEMBA1004366	9.956	10.099	14.263	5.481	5.631	6.802	6.791	6.167
	HEMBA1004372	3.613	4.593	5.338	0.000	1.638	1.507	3.555	1.568
	HEMBA1004377	53.834	41.410	47.048	29.140	26.163	34.546	30.827	33.572
	HEMBA1004389	20.540	22.800	24.474	14.497	13.968	16.620	14.951	17.114
	HEMBA1004391	60.284	22.653	44.013	14.283	19.018	31.716	23.931	23.617
	HEMBA1004393	177.786	197.548	108.554	32.455	75.399	76.587	39.777	44.665
45	HEMBA1004394	28.949	11.849	12.442	5.544	10.440	17.825	10.981	8.836
	HEMBA1004396	37.907	26.956	102.760	18.571	16.519	15.025	13.681	21.980
	HEMBA1004401	22.519	21.858	30.601	14.945	13.592	15.418	20.530	20.774
	HEMBA1004405	42.933	38.835	117.844	34.528	21.557	19.155	18.506	29.842
	HEMBA1004408	50.497	27.151	55.000	25.559	15.351	19.522	15.546	20.863
	HEMBA1004414	45.769	51.722	64.316	19.655	19.324	39.735	26.527	36.385
50	HEMBA1004429	61.867	59.067	190.058	39.014	50.304	38.462	27.517	46.317
	HEMBA1004433	49.568	39.828	146.938	37.521	28.383	24.241	24.651	42.005
	HEMBA1004440	31.849	22.499	37.132	18.742	22.366	23.183	21.969	35.073
	HEMBA1004444	59.488	46.586	163.763	30.695	29.990	24.833	22.908	37.635
	HEMBA1004446	22.134	12.309	29.426	11.920	3.385	14.862	10.855	16.078
	HEMBA1004451	31.688	21.261	28.136	18.194	15.678	19.695	21.159	27.156
55	HEMBA1004452	36.593	5.268	18.479	3.443	5.737	17.680	14.173	7.972
	HEMBA1004454	50.056	27.897	32.786	24.382	20.631	24.494	22.897	29.042

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	HEMBA1004460	138.550	96.143	356.058	74.883	54.735	70.698	38.344	55.945
	HEMBA1004461	64.074	19.163	24.808	12.846	16.373	23.508	22.827	10.137
5	HEMBA1004468	134.439	72.774	210.409	77.409	60.142	56.229	42.361	49.457
	HEMBA1004479	82.994	32.899	92.282	35.519	44.435	43.183	31.836	37.116
	HEMBA1004482	5.602	7.682	11.248	36.034	2.926	5.535	5.693	5.972
	HEMBA1004491	16.736	6.285	17.615	14.018	11.729	19.804	10.683	11.280
	HEMBA1004499	94.095	71.456	148.355	58.479	48.596	46.968	46.648	57.279
	HEMBA1004502	21.523	9.344	18.265	7.282	9.979	2.762	3.174	13.389
10	HEMBA1004505	26.042	15.980	43.855	17.516	15.469	22.190	22.873	15.812
	HEMBA1004506	12.004	29.395	42.664	21.849	21.426	14.469	9.224	9.845
	HEMBA1004507	96.377	87.688	99.177	103.472	34.160	81.068	54.939	151.142
	HEMBA1004509	52.657	14.880	19.120	16.228	17.009	24.783	24.565	13.476
	HEMBA1004523	20.156	18.209	11.197	16.529	14.651	13.004	20.267	19.467
	HEMBA1004528	42.620	27.819	48.069	14.426	25.267	43.038	40.239	37.718
15	HEMBA1004534	75.090	41.159	44.399	31.300	16.686	31.317	21.009	18.589
	HEMBA1004536	31.531	13.343	23.664	14.085	4.408	13.133	12.981	15.201
	HEMBA1004538	352.363	181.508	233.819	97.018	122.402	183.507	100.197	150.062
	HEMBA1004542	47.360	17.733	29.238	17.280	12.324	17.317	22.764	15.212
	HEMBA1004552	63.401	29.585	26.857	43.567	39.674	38.686	23.830	33.542
	HEMBA1004554	62.231	11.953	25.084	16.273	32.820	33.809	20.812	5.536
20	HEMBA1004558	30.217	12.133	31.036	15.840	30.638	65.183	19.155	30.921
	HEMBA1004560	68.901	16.566	17.908	16.431	10.034	30.093	22.379	22.883
	HEMBA1004564	48.119	14.911	35.565	31.983	32.464	30.028	20.965	32.479
	HEMBA1004566	32.479	29.553	20.970	32.788	42.949	40.715	23.273	32.960
	HEMBA1004573	17.728	13.843	7.118	9.972	19.952	9.755	9.278	8.100
	HEMBA1004576	39.572	26.733	42.044	10.704	37.505	32.441	17.232	25.361
25	HEMBA1004577	46.233	11.570	97.881	39.434	13.437	41.089	34.426	35.314
	HEMBA1004586	82.532	71.398	213.814	70.289	52.589	45.729	23.395	38.312
	HEMBA1004596	72.634	32.493	45.820	27.585	27.854	34.997	33.847	38.473
	HEMBA1004604	99.019	48.582	103.587	36.723	49.392	48.377	56.558	69.256
	HEMBA1004607	53.557	37.013	100.999	27.559	26.143	28.796	21.692	42.044
	HEMBA1004610	20.690	14.854	69.908	15.349	12.120	9.108	8.858	15.087
30	HEMBA1004617	22.692	20.386	42.426	22.819	15.568	10.691	6.697	10.317
	HEMBA1004622	78.025	46.803	209.059	49.931	29.836	29.902	12.194	27.438
	HEMBA1004626	38.170	36.312	110.684	22.791	14.118	17.193	15.579	20.821
	HEMBA1004629	33.858	37.886	87.440	53.228	47.341	28.160	12.170	28.096
	HEMBA1004631	35.946	10.475	4.434	7.390	17.128	22.775	9.569	32.852
	HEMBA1004632	27.084	13.891	23.598	10.209	7.802	11.754	22.566	6.362
35	HEMBA1004633	78.391	33.135	114.054	17.197	49.008	60.659	48.857	40.810
	HEMBA1004636	52.397	20.706	34.962	10.085	22.609	21.255	13.502	25.039
	HEMBA1004637	4.228	4.304	6.747	5.278	9.756	4.086	2.597	5.024
	HEMBA1004638	0.241	0.000	0.000	1.008	0.000	0.000	0.113	0.000
	HEMBA1004645	57.971	29.263	111.067	32.645	17.998	27.214	20.560	24.845
	HEMBA1004656	16.139	9.194	21.399	12.766	18.216	14.099	17.122	12.004
40	HEMBA1004657	20.820	23.742	69.842	9.422	138.932	42.697	9.048	13.383
	HEMBA1004666	7.321	3.174	18.097	5.962	9.830	5.098	2.525	7.512
	HEMBA1004669	94.910	36.291	111.210	30.591	20.021	28.018	25.500	25.624
	HEMBA1004670	57.231	17.070	60.538	23.280	13.173	24.312	23.413	14.342
	HEMBA1004672	63.471	50.154	146.619	39.883	31.559	25.617	20.328	28.099
	HEMBA1004689	152.993	93.435	103.311	81.212	50.901	83.998	57.329	84.276
45	HEMBA1004690	28.240	10.247	13.401	8.159	4.952	13.963	13.991	11.785
	HEMBA1004693	18.359	15.228	20.803	14.290	13.070	16.726	9.014	13.531
	HEMBA1004697	81.532	48.847	148.587	58.849	34.416	51.983	42.641	50.271
	HEMBA1004702	97.518	62.966	49.904	20.714	42.224	58.936	64.906	37.506
	HEMBA1004704	99.561	48.717	236.687	38.866	33.457	38.377	24.626	31.783
	HEMBA1004705	12.717	12.313	40.950	9.649	17.803	10.638	5.969	4.810
50	HEMBA1004706	33.616	9.825	16.175	10.779	10.830	17.906	13.036	12.703
	HEMBA1004709	51.126	39.934	136.723	32.285	25.072	21.674	15.230	23.755
	HEMBA1004711	46.766	9.203	57.020	12.805	14.304	16.154	12.982	9.790
	HEMBA1004723	121.283	47.643	73.497	30.236	56.917	65.719	56.298	52.009
	HEMBA1004725	56.905	32.051	70.171	12.221	48.208	34.021	35.739	12.501
	HEMBA1004730	36.072	10.037	30.016	7.633	13.361	7.545	8.989	34.832
55	HEMBA1004733	30.769	29.884	23.348	6.988	2.998	8.055	8.031	2.822
	HEMBA1004734	11.912	11.974	36.595	3.988	12.556	7.653	4.303	15.670

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	HEMBA1004736	55.309	25.331	132.333	45.653	38.696	23.516	19.970	34.509
	HEMBA1004748	53.832	20.004	172.069	29.562	22.161	14.904	12.665	18.349
5	HEMBA1004749	127.285	45.137	73.698	27.788	33.184	60.214	44.636	42.250
	HEMBA1004751	81.283	64.830	173.888	54.165	36.368	41.802	31.283	43.505
	HEMBA1004752	59.058	32.785	109.428	32.254	29.090	34.259	30.970	33.029
	HEMBA1004753	204.044	247.466	406.165	156.689	102.755	131.323	83.515	263.882
	HEMBA1004755	57.638	59.677	83.850	22.148	29.800	30.642	13.064	23.261
	HEMBA1004756	9.965	16.228	11.023	8.349	6.780	9.109	111.628	14.885
10	HEMBA1004758	36.487	26.558	116.970	22.341	14.553	14.773	11.840	14.406
	HEMBA1004763	67.343	19.641	33.742	13.841	16.720	25.489	23.061	18.650
	HEMBA1004768	29.177	24.043	38.303	6.673	10.298	3.197	10.352	13.391
	HEMBA1004770	10.327	14.492	10.901	6.416	6.310	7.963	10.868	7.955
	HEMBA1004771	46.910	34.314	76.491	31.609	22.830	23.102	30.433	32.358
	HEMBA1004775	39.253	28.706	63.968	24.931	18.754	43.049	32.720	26.795
15	HEMBA1004776	22.604	11.017	10.103	5.466	9.000	16.400	10.105	8.046
	HEMBA1004778	78.144	77.681	223.475	37.540	33.791	32.337	24.067	43.529
	HEMBA1004784	9.828	18.370	102.812	8.313	15.151	11.373	9.479	6.329
	HEMBA1004785	25.723	16.345	26.216	6.651	10.649	10.674	13.732	11.615
	HEMBA1004789	18.173	14.508	16.096	7.804	8.691	10.011	7.713	11.389
	HEMBA1004795	14.283	12.973	25.122	11.028	9.351	9.757	9.905	12.028
20	HEMBA1004797	65.927	33.745	73.888	34.142	28.246	40.067	32.715	25.583
	HEMBA1004803	36.634	41.124	65.880	27.072	30.957	22.607	22.520	26.554
	HEMBA1004806	11.997	8.183	21.467	8.868	9.653	9.000	7.894	8.399
	HEMBA1004807	16.352	14.481	22.459	11.249	12.009	13.340	7.935	9.118
	HEMBA1004816	29.782	24.075	95.884	18.110	29.259	8.180	12.578	10.934
	HEMBA1004820	8.636	7.466	8.862	4.249	4.018	4.269	6.876	3.493
25	HEMBA1004833	159.947	50.729	81.248	38.650	64.754	83.155	56.657	65.121
	HEMBA1004847	51.456	25.570	40.694	21.115	36.572	35.053	31.537	40.529
	HEMBA1004850	77.254	24.014	38.620	21.854	26.080	54.413	50.197	24.185
	HEMBA1004863	57.117	32.704	72.480	23.951	31.887	25.058	20.050	20.982
	HEMBA1004864	46.043	27.344	59.824	26.750	13.898	16.719	20.308	17.843
	HEMBA1004865	12.257	14.642	31.748	44.090	14.331	13.454	13.835	15.797
30	HEMBA1004880	56.788	50.021	126.837	35.420	26.589	24.064	20.647	23.264
	HEMBA1004882	42.450	18.453	29.340	16.782	13.013	13.652	10.676	19.977
	HEMBA1004885	8.545	4.947	5.350	4.891	2.933	3.711	3.652	6.615
	HEMBA1004889	28.103	22.485	32.049	17.078	14.363	23.391	15.605	16.916
	HEMBA1004900	19.922	15.709	33.254	10.423	9.045	6.539	5.245	9.440
	HEMBA1004909	88.522	49.269	163.284	48.147	35.537	36.045	18.861	27.933
35	HEMBA1004918	64.384	43.134	105.868	34.899	22.323	24.073	15.857	25.370
	HEMBA1004923	47.731	37.996	69.168	19.659	26.441	18.192	10.213	20.111
	HEMBA1004929	11.048	14.003	10.808	12.050	7.539	9.882	8.967	11.809
	HEMBA1004930	101.277	92.425	279.652	80.664	66.618	34.331	31.091	41.874
	HEMBA1004933	9.145	5.566	12.895	7.786	12.296	10.327	96.467	5.417
	HEMBA1004934	7.311	7.106	43.966	10.208	4.750	5.866	9.143	12.805
	HEMBA1004937	43.331	27.219	38.802	15.368	17.734	15.280	15.784	46.365
40	HEMBA1004943	51.072	26.833	32.001	21.614	16.458	27.585	29.628	38.533
	HEMBA1004944	84.363	46.788	126.294	43.803	28.989	38.514	31.589	23.074
	HEMBA1004946	64.638	28.144	37.908	17.163	24.332	27.854	34.636	31.712
	HEMBA1004952	90.835	18.893	40.862	12.874	20.090	33.568	20.062	19.020
	HEMBA1004954	14.656	36.003	41.485	27.126	23.696	20.777	6.946	29.261
	HEMBA1004956	5.975	9.923	6.635	7.743	0.953	4.578	1.565	5.188
45	HEMBA1004960	86.030	77.420	136.061	60.735	49.221	47.560	29.646	45.929
	HEMBA1004971	31.046	5.439	7.559	12.468	17.946	16.068	19.705	18.480
	HEMBA1004972	77.318	38.259	56.654	35.819	27.295	40.233	30.004	50.710
	HEMBA1004973	35.524	13.502	16.731	9.641	11.726	14.716	19.197	22.580
	HEMBA1004977	6.756	9.870	11.419	9.684	29.373	8.701	2.217	10.523
	HEMBA1004978	8.689	11.088	13.909	9.999	5.158	5.699	2.642	10.106
50	HEMBA1004980	34.093	33.440	87.268	25.974	18.071	16.453	11.605	22.124
	HEMBA1004982	14.750	8.271	17.944	9.205	8.250	11.553	6.083	5.456
	HEMBA1004983	38.285	13.488	20.831	11.831	3.348	10.309	11.455	8.305
	HEMBA1004995	27.256	28.515	26.297	18.434	25.474	22.491	24.452	33.683
	HEMBA1005004	13.855	10.490	33.238	10.381	7.816	13.134	7.576	14.698
	HEMBA1005008	64.714	26.633	22.502	18.478	23.532	28.617	18.581	16.940
55	HEMBA1005009	34.543	15.673	19.462	18.045	14.122	26.432	12.593	23.116

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	HEMBA1005019	49.260	24.872	25.349	20.834	30.144	32.629	20.777	27.016
	HEMBA1005021	37.224	63.713	38.065	17.061	15.647	20.369	25.859	32.656
5	HEMBA1005029	30.265	17.783	35.352	16.531	19.588	26.517	15.798	16.604
	HEMBA1005035	393.404	200.167	574.746	133.872	210.689	177.872	156.563	170.510
	HEMBA1005036	115.345	41.961	73.015	39.541	44.451	66.623	55.833	51.349
	HEMBA1005039	28.850	19.922	57.018	13.971	11.999	26.427	15.206	7.350
	HEMBA1005047	93.995	31.868	54.335	18.576	28.338	31.562	31.930	23.751
	HEMBA1005050	78.015	41.690	73.330	29.830	26.504	35.887	21.640	35.653
10	HEMBA1005062	23.050	15.803	29.553	15.707	7.836	15.618	19.435	13.336
	HEMBA1005066	10.980	11.364	31.553	13.509	5.668	10.541	5.005	10.849
	HEMBA1005067	39.308	34.578	39.795	44.519	24.643	21.272	19.379	20.121
	HEMBA1005070	73.155	34.949	68.556	29.956	38.004	38.211	48.007	31.733
	HEMBA1005075	88.089	37.798	148.675	40.537	33.271	33.074	28.661	30.201
	HEMBA1005078	100.064	37.746	66.827	33.115	41.170	55.560	51.231	17.112
15	HEMBA1005079	137.757	86.238	294.118	73.304	76.035	75.084	47.255	76.170
	HEMBA1005083	18.102	7.642	17.087	6.711	6.184	8.675	9.287	9.609
	HEMBA1005084	82.712	38.248	47.063	26.664	27.435	37.552	38.419	28.349
	HEMBA1005088	31.610	22.435	76.774	22.700	18.926	23.875	8.895	12.447
	HEMBA1005089	68.944	55.156	178.226	34.742	32.350	38.645	22.869	28.148
	HEMBA1005090	148.861	86.156	117.997	94.811	57.034	81.098	54.187	116.066
20	HEMBA1005096	83.125	30.911	63.940	33.378	33.962	48.589	35.467	36.021
	HEMBA1005101	69.080	14.020	34.136	10.197	13.998	34.420	22.696	15.975
	HEMBA1005107	82.659	25.203	36.223	11.215	21.514	32.720	25.972	21.337
	HEMBA1005113	7.977	17.225	31.501	7.563	44.493	5.157	6.957	9.761
	HEMBA1005123	173.637	77.260	555.672	126.908	94.628	90.446	70.735	90.016
	HEMBA1005133	58.192	40.749	122.920	29.864	16.700	17.652	8.802	18.988
25	HEMBA1005135	8.259	9.125	14.962	2.213	16.732	6.892	3.383	6.189
	HEMBA1005145	185.299	101.220	352.159	92.082	88.750	122.118	76.475	90.044
	HEMBA1005149	220.122	109.352	274.492	120.663	125.192	96.704	92.083	128.030
	HEMBA1005152	125.948	96.291	226.882	58.505	33.738	46.323	27.534	34.457
	HEMBA1005159	15.760	11.274	9.399	6.198	6.191	6.861	12.001	4.556
30	HEMBA1005172	1653.208	89.658	73.666	54.667	33.118	55.680	32.520	70.907
	HEMBA1005185	9.954	17.248	10.492	34.452	3.558	3.117	6.026	11.173
	HEMBA1005186	23.745	10.048	27.091	13.067	7.719	15.412	15.086	15.591
	HEMBA1005195	14.573	8.648	11.038	19.306	6.313	25.313	13.510	9.183
	HEMBA1005201	52.322	13.197	47.505	13.091	12.078	8.531	23.532	9.848
	HEMBA1005202	98.566	30.141	71.588	27.954	44.381	66.294	42.390	39.695
35	HEMBA1005204	184.429	287.156	382.039	168.753	203.458	222.970	143.609	358.646
	HEMBA1005206	148.946	61.309	84.791	34.139	49.115	66.295	83.608	76.159
	HEMBA1005219	21.685	17.755	9.606	8.236	8.038	13.031	7.751	11.441
	HEMBA1005223	79.969	42.665	113.480	40.547	32.099	53.017	26.025	32.004
	HEMBA1005229	26.819	9.926	21.841	3.135	5.090	6.656	4.681	7.079
	HEMBA1005230	71.184	67.313	201.065	79.279	59.679	77.484	47.808	66.511
	HEMBA1005232	7.374	6.386	17.522	8.552	3.285	12.098	4.975	3.965
40	HEMBA1005238	96.780	44.134	51.932	8.128	20.776	69.291	49.474	35.019
	HEMBA1005241	142.598	104.185	428.635	78.773	78.033	74.434	42.333	63.097
	HEMBA1005244	76.771	32.597	37.797	16.459	12.489	35.934	31.814	35.602
	HEMBA1005246	241.316	60.348	73.077	25.067	41.351	117.666	88.193	54.014
	HEMBA1005251	37.505	33.247	108.631	23.585	14.915	23.393	14.302	16.409
	HEMBA1005252	53.401	25.532	37.199	15.002	20.744	31.279	24.207	27.562
45	HEMBA1005267	17.238	39.564	20.097	27.506	31.874	11.013	14.526	14.024
	HEMBA1005274	16.538	8.744	18.308	9.021	10.103	11.943	8.914	11.978
	HEMBA1005275	69.133	43.329	216.468	46.290	57.647	37.411	25.040	41.913
	HEMBA1005288	65.401	50.495	150.714	33.833	34.633	28.241	24.910	40.164
	HEMBA1005293	17.403	9.430	23.201	4.467	3.192	25.620	6.775	8.771
	HEMBA1005296	223.097	811.623	894.835	738.361	220.523	698.319	418.435	1376.785
50	HEMBA1005301	36.708	16.970	29.798	11.929	12.544	22.221	35.726	32.270
	HEMBA1005304	83.978	71.914	260.016	50.686	36.101	36.160	24.896	47.838
	HEMBA1005305	44.218	33.773	74.215	27.494	27.352	34.920	21.424	38.882
	HEMBA1005311	33.034	20.140	48.263	13.836	7.908	8.958	9.090	10.440
	HEMBA1005313	11.165	36.175	17.550	7.047	11.502	14.209	63.072	9.124
	HEMBA1005314	6.948	2.955	22.604	6.336	3.812	5.787	4.069	4.891
55	HEMBA1005315	72.349	54.139	156.842	34.545	43.132	26.415	28.942	28.442
	HEMBA1005317	20.230	8.451	17.258	9.796	11.664	9.976	9.263	8.017